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Automated Dating of the World's Language Families Based on Lexical Similarity

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Abstract: This paper describes a computerized alternative to glottochronology for estimating elapsed time since parent languages diverged into daughter languages. The method, developed by the Automated Similarity Judgment Program (ASJP) consortium, is different from glottochronology in four major respects: (1) it is automated and thus is more objective, (2) it applies a uniform analytical approach to a single database of worldwide languages, (3) it is based on lexical similarity as determined from Levenshtein (edit) distances rather than on cognate percentages, and (4) it provides a formula for date calculation that mathematically recognizes the lexical heterogeneity of individual languages, including parent languages just before their breakup into daughter languages. Automated judgments of lexical similarity for groups of related languages are calibrated with historical, epigraphic, and archaeological divergence dates for 52 language groups. The discrepancies between estimated and calibration dates are found to be on average 29% as large as the estimated dates themselves, a figure that does not differ significantly among language families. As a resource for further research that may require dates of known level of accuracy, we offer a list of ASJP time depths for nearly all the world's recognized language families and for many subfamilies.

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Supplement A from Holman et al., "Automated Dating of the World's
Language Families based on Lexical Similarity"
ASJP dates for Ethnologue groups

The table below provides ASJP dates for all the language groups that are represented in the 16th edition of Ethnologue and also in the ASJP database, with the exception of constructed languages, creoles, mixed languages, and pidgins. As described in the main text, the dates are based on currently spoken languages and also extinct languages attested by wordlists collected from native speakers after 1700 CE, including a few languages that are missing from Ethnologue but are represented in the ASJP database and assigned to subgroups according to the classifications in the sources for the lists. Unlike some of the dates listed in the main text, the dates below refer only to groups defined in the Ethnologue classification, without any of the additional groups defined in the calibration sources. Groups are named as in Ethnologue except that spaces are omitted from the names. Dates are based on formula (3) of the main text, with $s_0 = 92\%$ and $r = 0.72$.

Each section of the table refers to groups at a single level of the classification. Level 1 consists of language families as defined by Ethnologue, Level 2 consists of groups at the highest level within families, and so on. Each block in the table refers to a single group. Since the date of a group is based on the mean similarity among subgroups at the next lower level, each line of the block (except the last) gives the number of lists in a subgroup followed by the complete classification of the subgroup: the name of the subgroup is preceded by the name of the group itself, which is preceded in turn by the names of higher-level groups in the classification. The completeness of the ASJP database for a group can be inferred by comparing the number of subgroups in the table with the number of subgroups in the Ethnologue classification itself. At the lowest taxonomic levels, individual languages are identified by their three-letter ISO-639-3 codes, or by codes ending with the number 0 for languages without ISO-639-3 codes; individual lists within languages are indicated by a comma at the end of the line. The last line of the block gives the number of pairs of lists over which similarity is averaged, then the mean similarity, and then the inferred date.

For example, the first group in the table at Level 1 is the Khoisan family, which has three subgroups: Southern Africa, with 15 ASJP lists; Sandawe, with one list; and Hatsa, with one list. There are 31 pairs of lists from different subgroups: the 15 Southern African lists each paired with Sandawe; the same 15 lists each paired with Hatsa; and Sandawe paired with Hatsa. The mean similarity across these 31 pairs is .01%, which corresponds to a date of 14592 BP for the divergence of the Khoisan subgroups from each other.

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 1
S0 = 92%, R = .72

15 Khoisan,SouthernAfrica
1 Khoisan,Sandawe
1 Khoisan,Hatsa
31 PAIRS .01% 14592 BP

594 Niger-Congo,Atlantic-Congo
64 Niger-Congo,Mande
20 Niger-Congo,Kordofanian
1 Niger-Congo,Unclassified
51854 PAIRS 1.54% 6227 BP

11 Nilo-Saharan,Kadugli-Krongo
1 Nilo-Saharan,Berta
44 Nilo-Saharan,CentralSudanic
68 Nilo-Saharan,EasternSudanic
4 Nilo-Saharan,Saharan
1 Nilo-Saharan,Fur
9 Nilo-Saharan,Komuz
2 Nilo-Saharan,Kunama
1 Nilo-Saharan,Unclassified
8 Nilo-Saharan,Songhai
7676 PAIRS 1.17% 6642 BP

61 Afro-Asiatic,Cushitic
23 Afro-Asiatic,Berber
98 Afro-Asiatic,Chadic
31 Afro-Asiatic,OmotiC
40 Afro-Asiatic,Semitic
2 Afro-Asiatic,Unclassified
24303 PAIRS 1.77% 6016 BP

1 Indo-European,Albanian
2 Indo-European,Armenian
2 Indo-European,Baltic
5 Indo-European,Celtic
30 Indo-European,Germanic
1 Indo-European,Greek
147 Indo-European,Indo-Iranian
14 Indo-European,Italic
16 Indo-European,Slavic
12264 PAIRS 5.29% 4348 BP

2 Uralic,Mordvin
6 Uralic,Finnic
6 Uralic,Sami
3 Uralic,Permian
1 Uralic,Mari
2 Uralic,Samoyed
2 Uralic,hun

1	Uralic,kca		
1	Uralic,mns		
240	PAIRS	11.40%	3178 BP
8	Altaic,Mongolic		
20	Altaic,Tungusic		
51	Altaic,Turkic		
1588	PAIRS	1.84%	5954 BP
1	Yukaghir,yux		
1	Yukaghir,ykg		
1	PAIRS	24.28%	2027 BP
2	Yeniseian,AP		
2	Yeniseian,KA		
2	Yeniseian,KY		
12	PAIRS	16.01%	2661 BP
3	Chukotko-Kamchatkan,Northern		
2	Chukotko-Kamchatkan,Southern		
6	PAIRS	10.06%	3368 BP
3	Japonic,jpn		
4	Japonic,Ryukyuan		
12	PAIRS	32.92%	1564 BP
5	NorthCaucasian,WestCaucasian		
32	NorthCaucasian,EastCaucasian		
160	PAIRS	.58%	7709 BP
1	Kartvelian,Georgian		
2	Kartvelian,Zan		
1	Kartvelian,Svan		
5	PAIRS	12.82%	2999 BP
3	Dravidian,Central		
3	Dravidian,Northern		
7	Dravidian,South-Central		
10	Dravidian,Southern		
181	PAIRS	23.84%	2055 BP
158	Sino-Tibetan,Tibeto-Burman		
7	Sino-Tibetan,Chinese		
1106	PAIRS	2.90%	5261 BP
9	Hmong-Mien,Hmongic		
4	Hmong-Mien,Mienic		
1	Hmong-Mien,HoNte		
49	PAIRS	5.66%	4243 BP
3	Tai-Kadai,Hlai		
9	Tai-Kadai,Kadai		

56	Tai-Kadai, Kam-Tai		
699	PAIRS	10.86%	3252 BP
97	Austro-Asiatic, Mon-Khmer		
19	Austro-Asiatic, Munda		
1843	PAIRS	8.45%	3635 BP
8	Andamanese, GreatAndamanese		
2	Andamanese, SouthAndamanese		
16	PAIRS	4.75%	4510 BP
2	Austronesian, Atayalic		
1	Austronesian, Bunun		
952	Austronesian, Malayo-Polynesian		
4	Austronesian, EastFormosan		
4	Austronesian, WesternPlains		
1	Austronesian, Paiwan		
2	Austronesian, NorthwestFormosan		
1	Austronesian, Puyuma		
3	Austronesian, Tsouic		
2	Austronesian, Rukai		
19212	PAIRS	8.46%	3633 BP
1	EastBird'sHead-Sentani, Burmeso		
3	EastBird'sHead-Sentani, EastBird'sHead		
9	EastBird'sHead-Sentani, Sentani		
39	PAIRS	1.19%	6615 BP
1	Amto-Musan, amt		
2	Amto-Musan, mmp		
2	PAIRS	21.84%	2189 BP
1	Trans-NewGuinea, Kamula		
1	Trans-NewGuinea, Awin-Pare		
15	Trans-NewGuinea, Bosavi		
9	Trans-NewGuinea, Eleman		
7	Trans-NewGuinea, EastStrickland		
8	Trans-NewGuinea, Gogodala-Suki		
3	Trans-NewGuinea, InlandGulf		
4	Trans-NewGuinea, Kayagar		
15	Trans-NewGuinea, Kiwaian		
3	Trans-NewGuinea, Kolopom		
26	Trans-NewGuinea, SoutheastPapuan		
14	Trans-NewGuinea, Marind		
18	Trans-NewGuinea, SouthBird'sHead		
2	Trans-NewGuinea, Mombum		
1	Trans-NewGuinea, Moraori		
1	Trans-NewGuinea, Oksapmin		
2	Trans-NewGuinea, Pawaian		
2	Trans-NewGuinea, Teberan		
2	Trans-NewGuinea, Angan		
8	Trans-NewGuinea, Asmat-Kamoro		

21	Trans-NewGuinea,Ok-Awyu			
5	Trans-NewGuinea,Binanderean			
10	Trans-NewGuinea,Chimbu-Wahgi			
1	Trans-NewGuinea,Damal			
59	Trans-NewGuinea,West			
1	Trans-NewGuinea,Dem			
2	Trans-NewGuinea,Duna-Bogaya			
24	Trans-NewGuinea,Kainantu-Goroka			
14	Trans-NewGuinea,Engan			
2	Trans-NewGuinea,WestKutubu			
19	Trans-NewGuinea,Finisterre-Huon			
1	Trans-NewGuinea,EastKutubu			
101	Trans-NewGuinea,Madang			
4	Trans-NewGuinea,Mek			
1	Trans-NewGuinea,Mor			
1	Trans-NewGuinea,TanahMerah			
1	Trans-NewGuinea,Tirio			
1	Trans-NewGuinea,Wiru			
4	Trans-NewGuinea,Turama-Kikorian			
77005	PAIRS	1.20%	6609	BP
2	CentralSolomons,blb			
1	CentralSolomons,lvk			
1	CentralSolomons,svs			
1	CentralSolomons,tqu			
9	PAIRS	8.21%	3677	BP
8	Border,Taikat			
8	Border,Waris			
64	PAIRS	9.51%	3453	BP
4	South-CentralPapuan,Yelmek-Maklew			
6	South-CentralPapuan,Pahoturi			
7	South-CentralPapuan,Morehead-UpperMaro			
3	South-CentralPapuan,Waia			
145	PAIRS	1.53%	6232	BP
2	SouthBougainville,Buin			
1	SouthBougainville,Nasioi			
2	PAIRS	12.37%	3054	BP
2	EastGeelvinkBay,Bauzi			
2	EastGeelvinkBay,trt			
4	PAIRS	6.73%	3979	BP
9	Tor-Kwerba,GreaterKwerba			
5	Tor-Kwerba,Orya-Tor			
45	PAIRS	4.99%	4435	BP
5	Arai-Kwomtari,Kwomtari			
4	Arai-Kwomtari,Arai(LeftMay)			
20	PAIRS	.72%	7386	BP

1	LakesPlain,Awera		
2	LakesPlain,Rasawa-Saponi		
22	LakesPlain,Tariku		
1	LakesPlain,East		
93	PAIRS	2.87%	5279 BP
1	LeftMay,bpw		
2	LeftMay,nax		
2	PAIRS	15.98%	2665 BP
10	Sepik,SepikHill		
2	Sepik,LeonhardSchultze		
1	Sepik,Biksi		
9	Sepik,Ndu		
2	Sepik,Nukuma		
2	Sepik,Ram		
1	Sepik,Iwam		
1	Sepik,YellowRiver		
294	PAIRS	3.86%	4827 BP
9	Ramu-LowerSepik,Ramu		
2	Ramu-LowerSepik,Kambot		
9	Ramu-LowerSepik,LowerSepik		
117	PAIRS	.96%	6942 BP
2	Mairasi,zrs		
2	Mairasi,etz		
4	PAIRS	41.93%	1196 BP
2	Torricelli,Monumbo		
8	Torricelli,Kombio-Arapesh		
9	Torricelli,Marienberg		
1	Torricelli,Urim		
5	Torricelli,Wapei-Palei		
1	Torricelli,WestWapei		
250	PAIRS	2.10%	5754 BP
3	Nimboran,msf		
2	Nimboran,nir		
6	PAIRS	23.78%	2059 BP
4	Pauwasi,Western		
3	Pauwasi,Eastern		
12	PAIRS	6.21%	4102 BP
8	Sko,Krisa		
6	Sko,Vanimu		
48	PAIRS	4.85%	4478 BP
5	Piawi,pnn		
2	Piawi,tmd		

10	PAIRS	11.22%	3203 BP
1	Yele-WestNewBritain, WestNewBritain		
1	Yele-WestNewBritain, Yele		
1	PAIRS	1.47%	6293 BP
1	NorthBougainville, Konua		
1	NorthBougainville, Rotokas		
1	PAIRS	13.46%	2925 BP
18	WestPapuan, NorthHalmahera		
9	WestPapuan, WestBird'sHead		
6	WestPapuan, Yapen		
324	PAIRS	.24%	9083 BP
15	EasternTrans-Fly, gdr		
16	EasternTrans-Fly, bon		
7	EasternTrans-Fly, tof		
1	EasternTrans-Fly, ulk		
495	PAIRS	10.83%	3257 BP
25	Australian, Gunwinguan		
18	Australian, Daly		
2	Australian, Bunaban		
2	Australian, Djeragan		
1	Australian, Garawan		
3	Australian, Giimbiyu		
4	Australian, Yiwaidjan		
1	Australian, Djamindjungan		
2	Australian, Laragiyan		
1	Australian, Limilngan-Wulna		
1	Australian, Nyulnyulan		
122	Australian, Pama-Nyungan		
1	Australian, Tiwian		
1	Australian, Ubugarla-Ngumbur		
3	Australian, WestBarkly		
6	Australian, Wororan		
10664	PAIRS	2.84%	5296 BP
1	Eskimo-Aleut, Aleut		
8	Eskimo-Aleut, Eskimo		
8	PAIRS	3.26%	5084 BP
22	Na-Dene, NuclearNa-Dene		
1	Na-Dene, Haida		
22	PAIRS	-.25%	
25	Algonquian, Algonquian		
1	Algonquian, Wiyot		
1	Algonquian, Yurok		
51	PAIRS	2.39%	5554 BP

6	Iroquoian,NorthernIroquoian		
1	Iroquoian,SouthernIroquoian		
6	PAIRS	3.79%	4855 BP
4	Muskogean,Eastern		
2	Muskogean,Western		
8	PAIRS	29.71%	1720 BP
1	Gulf,ncz		
1	Gulf,aqp		
1	Gulf,ctm		
3	PAIRS	.53%	7859 BP
1	Coahuiltecan,tqw		
1	Coahuiltecan,xcm		
1	PAIRS	4.38%	4636 BP
3	Caddoan,Northern		
1	Caddoan,Southern		
3	PAIRS	3.86%	4828 BP
15	Siouan,SiouanProper		
1	Siouan,Catawba		
15	PAIRS	1.59%	6178 BP
1	KiowaTanoan,Kiowa-Towa		
2	KiowaTanoan,Tewa-Tiwa		
2	PAIRS	9.64%	3434 BP
71	Uto-Aztecan,SouthernUto-Aztecan		
11	Uto-Aztecan,NorthernUto-Aztecan		
781	PAIRS	6.56%	4018 BP
2	Wakashan,Northern		
3	Wakashan,Southern		
6	PAIRS	14.80%	2781 BP
1	Salishan,BellaCoola		
10	Salishan,CentralSalish		
6	Salishan,InteriorSalish		
1	Salishan,Tillamook		
2	Salishan,Tsamosan		
129	PAIRS	7.44%	3827 BP
11	Penutian,Yok-Utian		
3	Penutian,PlateauPenutian		
4	Penutian,Maiduan		
1	Penutian,Unclassified		
1	Penutian,Tsimshian		
1	Penutian,CaliforniaPenutian		
4	Penutian,OregonPenutian		
230	PAIRS	2.44%	5522 BP

13	Hokan, Northern		
11	Hokan, Esselen-Yuman		
1	Hokan, Washo		
167	PAIRS	3.64%	4915 BP
1	Yuki, wao		
1	Yuki, yuk		
1	PAIRS	17.80%	2500 BP
1	Chumash, boi		
1	Chumash, crz		
1	Chumash, inz		
1	Chumash, obi		
1	Chumash, veo		
10	PAIRS	28.34%	1792 BP
1	Oto-Manguean, Amuzgoan		
2	Oto-Manguean, Chiapanec-Mangue		
4	Oto-Manguean, Chinantecan		
9	Oto-Manguean, Mixtecan		
7	Oto-Manguean, Otopamean		
17	Oto-Manguean, Popolocan		
6	Oto-Manguean, Subtiaba-Tlapanecan		
28	Oto-Manguean, Zapotecan		
2108	PAIRS	1.21%	6591 BP
11	Totonacan, Totonac		
3	Totonacan, Tepehua		
33	PAIRS	35.83%	1435 BP
1	Tequistlatecan, chd		
1	Tequistlatecan, clo		
1	PAIRS	41.50%	1212 BP
7	Mixe-Zoque, Mixe		
7	Mixe-Zoque, Zoque		
49	PAIRS	36.51%	1407 BP
8	Mayan, Kanjobalan-Chujean		
52	Mayan, Quichean-Mamean		
2	Mayan, Huastecan		
9	Mayan, Cholan-Tzeltalan		
5	Mayan, Yucatecan		
1449	PAIRS	21.39%	2220 BP
1	Misumalpan, ccr		
1	Misumalpan, miq		
1	Misumalpan, sum		
3	PAIRS	14.87%	2774 BP
4	Chibchan, Aruak		

1	Chibchan,ChibchanProper		
1	Chibchan,Doraske		
3	Chibchan,Guaymi		
2	Chibchan,Kuna		
1	Chibchan,Motilon		
1	Chibchan,Paya		
2	Chibchan,Rama		
5	Chibchan,Talamanca		
1	Chibchan,Unclassified		
1	Chibchan,Cofan		
210	PAIRS	5.11%	4400 BP
7	Choco,Embera		
1	Choco,noa		
7	PAIRS	20.87%	2258 BP
1	Barbacoan,Pasto		
2	Barbacoan,Cayapa-Colorado		
2	Barbacoan,Coconucan		
8	PAIRS	12.16%	3080 BP
1	Guahiban,cui		
1	Guahiban,guh		
1	Guahiban,guo		
1	Guahiban,mbn		
1	Guahiban,gob		
10	PAIRS	39.39%	1291 BP
13	Tucanoan,EasternTucanoan		
1	Tucanoan,CentralTucanoan		
5	Tucanoan,WesternTucanoan		
83	PAIRS	15.62%	2699 BP
2	Maku,cbv		
2	Maku,mbr		
1	Maku,kwa		
1	Maku,jup		
1	Maku,mbj		
1	Maku,yab		
26	PAIRS	11.81%	3124 BP
3	Witotoan,Boran		
4	Witotoan,Witoto		
12	PAIRS	2.49%	5491 BP
2	Yanomam,xsu		
3	Yanomam,shb		
2	Yanomam,wca		
1	Yanomam,guu		
23	PAIRS	38.66%	1319 BP
1	Zaparoan,arl		

1	Zaparoan, cah		
1	Zaparoan, zro		
3	PAIRS	11.40%	3178 BP
1	Jivaroan, acu		
1	Jivaroan, agr		
1	Jivaroan, hub		
1	Jivaroan, jiv		
6	PAIRS	58.94%	678 BP
1	Cahuapanan, cbt		
1	Cahuapanan, jeb		
1	PAIRS	42.23%	1185 BP
6	Panoan, South-Central		
3	Panoan, Southeastern		
4	Panoan, North-Central		
1	Panoan, Western		
1	Panoan, Southern		
1	Panoan, Eastern		
3	Panoan, Northern		
144	PAIRS	27.24%	1853 BP
18	Quechuan, QuechuaII		
1	Quechuan, QuechuaI		
18	PAIRS	29.77%	1717 BP
1	Aymaran, ayr		
2	Aymaran, jqr		
2	PAIRS	45.92%	1057 BP
12	Carib, Northern		
6	Carib, Southern		
72	PAIRS	19.50%	2362 BP
1	Tupi, Arikem		
1	Tupi, Aweti		
1	Tupi, Mawe-Satere		
5	Tupi, Monde		
2	Tupi, Munduruku		
3	Tupi, Tupari		
32	Tupi, Tupi-Guarani		
2	Tupi, Yuruna		
570	PAIRS	8.73%	3585 BP
2	Macro-Ge, Bororo		
1	Macro-Ge, Botocudo		
13	Macro-Ge, Ge-Kaingang		
1	Macro-Ge, Guato		
1	Macro-Ge, Karaja		
1	Macro-Ge, Maxakali		
1	Macro-Ge, Opaye		

1 Macro-Ge,Puri
 1 Macro-Ge,Rikbaktsa
 1 Macro-Ge,Fulnio
 2 Macro-Ge,Yabuti
 1 Macro-Ge,Chiquito
 245 PAIRS .78% 7266 BP

 1 Nambiquaran,Northern
 1 Nambiquaran,nab
 1 Nambiquaran,sae
 3 PAIRS 14.55% 2807 BP

 1 Chapacura-Wanham,Guapore
 1 Chapacura-Wanham,Madeira
 1 PAIRS 25.87% 1931 BP

 3 Arauan,jaa
 1 Arauan,dny
 2 Arauan,cul
 1 Arauan,pad
 17 PAIRS 28.88% 1764 BP

 1 Katukinan,knm
 1 Katukinan,xat
 1 Katukinan,kav
 3 PAIRS 25.29% 1965 BP

 3 Tacanan,Araona-Tacana
 1 Tacanan,Tiatinagua
 3 PAIRS 32.37% 1590 BP

 2 Uru-Chipaya,cap
 1 Uru-Chipaya,ure
 2 PAIRS 33.89% 1520 BP

 2 Zamucoan,ayo
 1 Zamucoan,ceg
 2 PAIRS 14.96% 2765 BP

 1 Mascoian,leg
 2 Mascoian,sap
 2 PAIRS 29.76% 1718 BP

 5 Mataco-Guaicuru,Mataco
 5 Mataco-Guaicuru,Guaicuruan
 25 PAIRS 4.19% 4701 BP

 1 Chon,ona
 1 Chon,teh
 1 PAIRS 14.87% 2774 BP

S0 = 92%, R = .72

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7 Khoisan,SouthernAfrica,Central
3 Khoisan,SouthernAfrica,Northern
5 Khoisan,SouthernAfrica,Southern
71 PAIRS 2.88% 5271 BP

528 Niger-Congo,Atlantic-Congo,Volta-Congo
32 Niger-Congo,Atlantic-Congo,Atlantic
34 Niger-Congo,Atlantic-Congo,Ijoid
35936 PAIRS 1.26% 6525 BP

17 Niger-Congo,Mande,Eastern
47 Niger-Congo,Mande,Western
799 PAIRS 9.74% 3417 BP

11 Niger-Congo,Kordofanian,Heiban
2 Niger-Congo,Kordofanian,Katla
1 Niger-Congo,Kordofanian,Rashad
6 Niger-Congo,Kordofanian,Talodi
119 PAIRS 3.77% 4861 BP

2 Nilo-Saharan,Kadugli-Krongo,kcp
2 Nilo-Saharan,Kadugli-Krongo,kgp
3 Nilo-Saharan,Kadugli-Krongo,xtc
2 Nilo-Saharan,Kadugli-Krongo,tey
1 Nilo-Saharan,Kadugli-Krongo,kec
1 Nilo-Saharan,Kadugli-Krongo,tbr
49 PAIRS 41.25% 1221 BP

17 Nilo-Saharan,CentralSudanic,West
27 Nilo-Saharan,CentralSudanic,East
459 PAIRS 3.20% 5114 BP

1 Unclassified,kah,
1 Unclassified,kah,
1 PAIRS 35.39% 1454 BP

6 Nilo-Saharan,EasternSudanic,Western
14 Nilo-Saharan,EasternSudanic,Eastern
1 Nilo-Saharan,EasternSudanic,Kuliak
47 Nilo-Saharan,EasternSudanic,Nilotic
1091 PAIRS 1.80% 5988 BP

1 Nilo-Saharan,Saharan,Eastern
3 Nilo-Saharan,Saharan,Western
3 PAIRS 6.91% 3941 BP

3 Nilo-Saharan,Komuz,Gumuz
6 Nilo-Saharan,Komuz,Koman
18 PAIRS 3.00% 5209 BP
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6	Nilo-Saharan, Songhai, Southern		
2	Nilo-Saharan, Songhai, Northern		
12	PAIRS	38.31%	1333 BP
1	Afro-Asiatic, Cushitic, North		
8	Afro-Asiatic, Cushitic, Central		
46	Afro-Asiatic, Cushitic, East		
6	Afro-Asiatic, Cushitic, South		
752	PAIRS	4.10%	4736 BP
4	Afro-Asiatic, Berber, Tamasheq		
3	Afro-Asiatic, Berber, Eastern		
15	Afro-Asiatic, Berber, Northern		
1	Afro-Asiatic, Berber, Zenaga		
139	PAIRS	29.46%	1733 BP
45	Afro-Asiatic, Chadic, Biu-Mandara		
5	Afro-Asiatic, Chadic, East		
8	Afro-Asiatic, Chadic, Masa		
40	Afro-Asiatic, Chadic, West		
2945	PAIRS	3.86%	4826 BP
28	Afro-Asiatic, Omotic, North		
3	Afro-Asiatic, Omotic, South		
84	PAIRS	3.52%	4968 BP
22	Afro-Asiatic, Semitic, South		
18	Afro-Asiatic, Semitic, Central		
396	PAIRS	10.51%	3301 BP
23	Indo-European, Germanic, West		
7	Indo-European, Germanic, North		
161	PAIRS	29.24%	1745 BP
93	Indo-European, Indo-Iranian, Indo-Aryan		
54	Indo-European, Indo-Iranian, Iranian		
5022	PAIRS	8.28%	3665 BP
4	Indo-European, Slavic, East		
6	Indo-European, Slavic, South		
6	Indo-European, Slavic, West		
84	PAIRS	43.01%	1157 BP
1	Uralic, Mordvin, myv		
1	Uralic, Mordvin, mdf		
1	PAIRS	54.39%	800 BP
2	Uralic, Finnic, est		
1	Uralic, Finnic, fin		
1	Uralic, Finnic, krl		
1	Uralic, Finnic, liv		
1	Uralic, Finnic, vep		

14	PAIRS	51.75%	876 BP
3	Uralic,Sami,Eastern		
3	Uralic,Sami,Western		
9	PAIRS	33.63%	1532 BP
2	Uralic,Permian,Komi		
1	Uralic,Permian,udm		
2	PAIRS	49.17%	953 BP
1	Uralic,Samoyed,yrk		
1	Uralic,Samoyed,sel		
1	PAIRS	14.14%	2850 BP
1	Uralic,hun,		
1	Uralic,hun,		
1	PAIRS	49.50%	943 BP
7	Altaic,Mongolic,Eastern		
1	Altaic,Mongolic,Western		
7	PAIRS	20.75%	2267 BP
9	Altaic,Tungusic,Northern		
11	Altaic,Tungusic,Southern		
99	PAIRS	38.67%	1319 BP
7	Altaic,Turkic,Northern		
30	Altaic,Turkic,Southern		
11	Altaic,Turkic,Western		
1	Altaic,Turkic,Bolgar		
2	Altaic,Turkic,Eastern		
763	PAIRS	36.10%	1424 BP
1	Yeniseian,AP,xrn		
1	Yeniseian,AP,xpm		
1	PAIRS	14.99%	2762 BP
1	Yeniseian,KA,xss		
1	Yeniseian,KA,zko		
1	PAIRS	55.07%	781 BP
1	Yeniseian,KY,ket		
1	Yeniseian,KY,yuu		
1	PAIRS	48.65%	970 BP
2	Chukotko-Kamchatkan,Northern,Koryak-Alyutor		
1	Chukotko-Kamchatkan,Northern,Chukot		
2	PAIRS	42.04%	1192 BP
1	Japonic,jpn,		
1	Japonic,jpn,		
1	Japonic,jpn,		

3 PAIRS 61.48% 613 BP

 2 NorthCaucasian,WestCaucasian,Abkhaz-Abazin
 2 NorthCaucasian,WestCaucasian,Circassian
 1 NorthCaucasian,WestCaucasian,Ubyx
 8 PAIRS 8.37% 3649 BP

 9 NorthCaucasian,EastCaucasian,Avar-Andic
 7 NorthCaucasian,EastCaucasian,Tsezic
 1 NorthCaucasian,EastCaucasian,Dargi
 1 NorthCaucasian,EastCaucasian,Lak
 10 NorthCaucasian,EastCaucasian,Lezgic
 1 NorthCaucasian,EastCaucasian,Khinalugh
 3 NorthCaucasian,EastCaucasian,Nakh
 391 PAIRS 7.06% 3907 BP

 1 Kartvelian,Zan,lzz
 1 Kartvelian,Zan,xmf
 1 PAIRS 62.20% 596 BP

 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 1 Languageisolate,bsk,
 45 PAIRS 80.75% 199 BP

 1 Languageisolate,nll,
 1 Languageisolate,nll,
 1 PAIRS 45.24% 1080 BP

 2 Dravidian,Central,Parji-Gadaba
 1 Dravidian,Central,Kolami-Naiki
 2 PAIRS 58.29% 695 BP

 1 Dravidian,Northern,brh
 1 Dravidian,Northern,kru
 1 Dravidian,Northern,mjt
 3 PAIRS 24.24% 2030 BP

 6 Dravidian,South-Central,Gondi-Kui
 1 Dravidian,South-Central,Telugu
 6 PAIRS 18.43% 2447 BP

 9 Dravidian,Southern,Tamil-Kannada
 1 Dravidian,Southern,Tulu
 9 PAIRS 26.50% 1894 BP

18	Sino-Tibetan, Tibeto-Burman, Bai		
15	Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo		
54	Sino-Tibetan, Tibeto-Burman, Himalayish		
9	Sino-Tibetan, Tibeto-Burman, Lolo-Burmese		
11	Sino-Tibetan, Tibeto-Burman, Burmic		
2	Sino-Tibetan, Tibeto-Burman, Unclassified		
10	Sino-Tibetan, Tibeto-Burman, Karen		
18	Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga		
1	Sino-Tibetan, Tibeto-Burman, Mikir		
1	Sino-Tibetan, Tibeto-Burman, Meitei		
12	Sino-Tibetan, Tibeto-Burman, NorthAssam		
3	Sino-Tibetan, Tibeto-Burman, Nungish		
3	Sino-Tibetan, Tibeto-Burman, Tangut-Qiang		
1	Sino-Tibetan, Tibeto-Burman, Tujia		
10352	PAIRS	5.81%	4203 BP
2	Sino-Tibetan, Chinese, nan		
1	Sino-Tibetan, Chinese, yue		
1	Sino-Tibetan, Chinese, hak		
2	Sino-Tibetan, Chinese, cmn		
1	Sino-Tibetan, Chinese, wuu		
19	PAIRS	12.97%	2982 BP
1	Hmong-Mien, Hmongic, Bunu		
6	Hmong-Mien, Hmongic, Chuanqiandian		
1	Hmong-Mien, Hmongic, Qiandong		
1	Hmong-Mien, Hmongic, Xiangxi		
21	PAIRS	14.84%	2777 BP
1	Tai-Kadai, Hlai, jio		
2	Tai-Kadai, Hlai, lic		
2	PAIRS	19.61%	2353 BP
4	Tai-Kadai, Kadai, Yang-Biao		
1	Tai-Kadai, Kadai, Ge-Yang		
4	Tai-Kadai, Kadai, Ge-Chi		
24	PAIRS	16.53%	2613 BP
1	Tai-Kadai, Kam-Tai, Lakkja		
45	Tai-Kadai, Kam-Tai, Be-Tai		
10	Tai-Kadai, Kam-Tai, Kam-Sui		
505	PAIRS	19.31%	2376 BP
9	Austro-Asiatic, Mon-Khmer, Aslian		
41	Austro-Asiatic, Mon-Khmer, EasternMon-Khmer		
29	Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer		
3	Austro-Asiatic, Mon-Khmer, Monic		
2	Austro-Asiatic, Mon-Khmer, SouthernMonic		
3	Austro-Asiatic, Mon-Khmer, Nicobar		
2	Austro-Asiatic, Mon-Khmer, Palyu		
8	Austro-Asiatic, Mon-Khmer, Viet-Muong		

3358	PAIRS	9.81%	3406 BP
15	Austro-Asiatic, Munda, NorthMunda		
4	Austro-Asiatic, Munda, SouthMunda		
60	PAIRS	16.96%	2574 BP
6	Andamanese, GreatAndamanese, Central		
2	Andamanese, GreatAndamanese, Northern		
12	PAIRS	22.82%	2122 BP
1	Andamanese, SouthAndamanese, anq		
1	Andamanese, SouthAndamanese, oon		
1	PAIRS	42.22%	1186 BP
1	Austronesian, Atayalic, tay		
1	Austronesian, Atayalic, trv		
1	PAIRS	15.98%	2664 BP
34	Austronesian, Malayo-Polynesian, Malayo-Sumbawan		
57	Austronesian, Malayo-Polynesian, GreaterBarito		
580	Austronesian, Malayo-Polynesian, Central-Eastern		
1	Austronesian, Malayo-Polynesian, Chamorro		
4	Austronesian, Malayo-Polynesian, NorthwestSumatra-		
	BarrierIslands		
3	Austronesian, Malayo-Polynesian, Javanese		
17	Austronesian, Malayo-Polynesian, NorthBorneo		
24	Austronesian, Malayo-Polynesian, Lampung		
3	Austronesian, Malayo-Polynesian, LandDayak		
151	Austronesian, Malayo-Polynesian, Philippine		
1	Austronesian, Malayo-Polynesian, Moklen		
1	Austronesian, Malayo-Polynesian, Palauan		
1	Austronesian, Malayo-Polynesian, Rejang		
61	Austronesian, Malayo-Polynesian, Celebic		
11	Austronesian, Malayo-Polynesian, SouthSulawesi		
3	Austronesian, Malayo-Polynesian, Enggano		
268972	PAIRS	12.62%	3024 BP
2	Austronesian, EastFormosan, Central		
1	Austronesian, EastFormosan, Northern		
1	Austronesian, EastFormosan, Southwest		
5	PAIRS	19.11%	2392 BP
3	Austronesian, WesternPlains, CentralWesternPlains		
1	Austronesian, WesternPlains, Thao		
3	PAIRS	16.83%	2586 BP
1	Austronesian, NorthwestFormosan, uun		
1	Austronesian, NorthwestFormosan, xsy		
1	PAIRS	21.63%	2204 BP
1	Austronesian, Tsouic, xnb		
1	Austronesian, Tsouic, sxr		

1 Austronesian,Tsouic,tsu
3 PAIRS 20.42% 2291 BP

2 EastBird'sHead-Sentani,EastBird'sHead,Meax
1 EastBird'sHead-Sentani,EastBird'sHead,Mantion
2 PAIRS 8.70% 3590 BP

4 EastBird'sHead-Sentani,Sentani,Demta
5 EastBird'sHead-Sentani,Sentani,SentaniProper
20 PAIRS 6.22% 4101 BP

1 Amto-Musan,mmp,
1 Amto-Musan,mmp,
1 PAIRS 87.20% 82 BP

1 CentralSolomons,blb,
1 CentralSolomons,blb,
1 PAIRS 74.91% 313 BP

3 Border,Taikat,aos
5 Border,Taikat,auw
15 PAIRS 18.96% 2404 BP

1 Border,Waris,imn
3 Border,Waris,jet
1 Border,Waris,snu
1 Border,Waris,sow
2 Border,Waris,wrs
24 PAIRS 20.83% 2261 BP

1 Trans-NewGuinea,Bosavi,ail
3 Trans-NewGuinea,Bosavi,beo
3 Trans-NewGuinea,Bosavi,bco
1 Trans-NewGuinea,Bosavi,dbv
2 Trans-NewGuinea,Bosavi,etr
2 Trans-NewGuinea,Bosavi,khs
1 Trans-NewGuinea,Bosavi,onv
2 Trans-NewGuinea,Bosavi,siq
96 PAIRS 19.66% 2349 BP

2 South-CentralPapuan,Yelmek-Maklew,mgf
2 South-CentralPapuan,Yelmek-Maklew,jel
4 PAIRS 35.06% 1468 BP

1 SouthBougainville,Buin,buo
1 SouthBougainville,Buin,siw
1 PAIRS 29.25% 1744 BP

1 EastGeelvinkBay,trt,
1 EastGeelvinkBay,trt,
1 PAIRS 69.82% 420 BP

6	Trans-NewGuinea, Eleman, NuclearEleman		
2	Trans-NewGuinea, Eleman, Purari		
1	Trans-NewGuinea, Eleman, Tate		
20	PAIRS	3.80%	4851 BP
1	Trans-NewGuinea, EastStrickland, agl		
3	Trans-NewGuinea, EastStrickland, goi		
1	Trans-NewGuinea, EastStrickland, jko		
1	Trans-NewGuinea, EastStrickland, kkc		
1	Trans-NewGuinea, EastStrickland, smq		
18	PAIRS	36.66%	1401 BP
7	Trans-NewGuinea, Gogodala-Suki, Gogodala		
1	Trans-NewGuinea, Gogodala-Suki, Suki		
7	PAIRS	14.36%	2827 BP
1	Trans-NewGuinea, InlandGulf, Ipiko		
2	Trans-NewGuinea, InlandGulf, Minanibai		
2	PAIRS	13.99%	2867 BP
1	Kaure, KaureProper, bpp		
1	Kaure, KaureProper, kiq		
1	PAIRS	15.98%	2665 BP
2	Trans-NewGuinea, Kayagar, aqm		
1	Trans-NewGuinea, Kayagar, kyt		
1	Trans-NewGuinea, Kayagar, tcg		
5	PAIRS	39.54%	1285 BP
4	Trans-NewGuinea, Kiwaian, kiw		
2	Trans-NewGuinea, Kiwaian, bcf		
5	Trans-NewGuinea, Kiwaian, kjd		
1	Trans-NewGuinea, Kiwaian, kxz		
1	Trans-NewGuinea, Kiwaian, mdb		
1	Trans-NewGuinea, Kiwaian, prn		
1	Trans-NewGuinea, Kiwaian, kmx		
88	PAIRS	35.80%	1436 BP
1	Trans-NewGuinea, Kolopom, kig		
1	Trans-NewGuinea, Kolopom, nqm		
1	Trans-NewGuinea, Kolopom, ran		
3	PAIRS	13.76%	2892 BP
6	Trans-NewGuinea, SoutheastPapuan, Kwalean		
3	Trans-NewGuinea, SoutheastPapuan, Goilalan		
7	Trans-NewGuinea, SoutheastPapuan, Koiarian		
3	Trans-NewGuinea, SoutheastPapuan, Mailuan		
6	Trans-NewGuinea, SoutheastPapuan, Manubaran		
1	Trans-NewGuinea, SoutheastPapuan, Yareban		
268	PAIRS	2.85%	5286 BP
6	Tor-Kwerba, GreaterKwerba, Kwerba		

1	Tor-Kwerba, GreaterKwerba, Isirawa		
2	Tor-Kwerba, GreaterKwerba, Mawes		
20	PAIRS	6.18%	4109 BP
2	Arai-Kwomtari, Kwomtari, Fas		
1	Arai-Kwomtari, Kwomtari, NuclearKwomtari		
1	Arai-Kwomtari, Kwomtari, Kwomtari		
1	Arai-Kwomtari, Kwomtari, Pyu		
9	PAIRS	1.82%	5968 BP
1	LakesPlain, Rasawa-Saponi, rac		
1	LakesPlain, Rasawa-Saponi, spi		
1	PAIRS	12.51%	3037 BP
1	LakesPlain, Tariku, Duvle		
9	LakesPlain, Tariku, East		
10	LakesPlain, Tariku, West		
2	LakesPlain, Tariku, Central		
149	PAIRS	8.98%	3541 BP
1	Arai-Kwomtari, Arai (LeftMay), amm		
1	Arai-Kwomtari, Arai (LeftMay), niw		
1	Arai-Kwomtari, Arai (LeftMay), owi		
1	Arai-Kwomtari, Arai (LeftMay), itr		
6	PAIRS	13.04%	2974 BP
1	LeftMay, nax,		
1	LeftMay, nax,		
1	PAIRS	85.44%	113 BP
1	Sepik, SepikHill, Papi		
1	Sepik, SepikHill, Alamblak		
2	Sepik, SepikHill, Bahinemo		
6	Sepik, SepikHill, Sanio		
29	PAIRS	9.00%	3538 BP
2	Ramu-LowerSepik, Ramu, MiddleRamu		
1	Ramu-LowerSepik, Ramu, Grass		
2	Ramu-LowerSepik, Ramu, Ottilien		
4	Ramu-LowerSepik, Ramu, Mikarew		
28	PAIRS	6.65%	4000 BP
2	Ramu-LowerSepik, LowerSepik, Angoram		
2	Ramu-LowerSepik, LowerSepik, Chambri		
4	Ramu-LowerSepik, LowerSepik, Nor		
1	Ramu-LowerSepik, LowerSepik, Karawari		
28	PAIRS	9.78%	3411 BP
1	Yuat, kql,		
1	Yuat, kql,		
1	PAIRS	41.16%	1224 BP

1	Mairasi,zrs,		
1	Mairasi,zrs,		
1	PAIRS	66.32%	498 BP
1	Mairasi,etz,		
1	Mairasi,etz,		
1	PAIRS	85.89%	105 BP
8	Trans-NewGuinea,Marind,Boazi		
3	Trans-NewGuinea,Marind,NuclearMarind		
3	Trans-NewGuinea,Marind,Yaqay		
57	PAIRS	6.58%	4014 BP
13	Trans-NewGuinea,SouthBird'sHead,SouthBird'sHeadProper		
4	Trans-NewGuinea,SouthBird'sHead,Inanwatan		
1	Trans-NewGuinea,SouthBird'sHead,Konda-Yahadian		
69	PAIRS	8.86%	3562 BP
1	Trans-NewGuinea,Mombum,kdw		
1	Trans-NewGuinea,Mombum,mso		
1	PAIRS	38.82%	1313 BP
1	Torricelli,Monumbo,lll		
1	Torricelli,Monumbo,mxk		
1	PAIRS	26.98%	1867 BP
5	South-CentralPapuan,Pahoturi,kit		
1	South-CentralPapuan,Pahoturi,idi		
5	PAIRS	24.02%	2044 BP
4	South-CentralPapuan,Morehead-UpperMaro,Nambu		
2	South-CentralPapuan,Morehead-UpperMaro,Tonda		
1	South-CentralPapuan,Morehead-UpperMaro,Yey		
14	PAIRS	2.73%	5353 BP
1	Nimboran,msf,		
1	Nimboran,msf,		
1	Nimboran,msf,		
3	PAIRS	72.70%	358 BP
1	Nimboran,nir,		
1	Nimboran,nir,		
1	PAIRS	51.79%	875 BP
3	Pauwasi,Western,dmu		
1	Pauwasi,Western,ttn		
3	PAIRS	28.69%	1774 BP
2	Pauwasi,Eastern,yuj		
1	Pauwasi,Eastern,wfg		
2	PAIRS	14.22%	2842 BP

1	Senagi,kbv,		
1	Senagi,kbv,		
1	Senagi,kbv,		
1	Senagi,kbv,		
1	Senagi,kbv,		
10	PAIRS	41.73%	1203 BP
3	Sepik,Ndu,bzf		
1	Sepik,Ndu,mle		
2	Sepik,Ndu,abt		
1	Sepik,Ndu,nud		
1	Sepik,Ndu,ian		
1	Sepik,Ndu,ylg		
32	PAIRS	41.08%	1227 BP
1	Sepik,Nukuma,kmo		
1	Sepik,Nukuma,sim		
1	PAIRS	28.37%	1791 BP
1	Sepik,Ram,kmn		
1	Sepik,Ram,bye		
1	PAIRS	28.35%	1791 BP
2	Sko,Krisa,wra		
1	Sko,Krisa,po0		
1	Sko,Krisa,ra0		
1	Sko,Krisa,rwa		
1	Sko,Krisa,su0		
1	Sko,Krisa,wq0		
1	Sko,Krisa,ksi		
27	PAIRS	19.01%	2400 BP
1	Sko,Vanimovam		
1	Sko,Vanimodu0		
1	Sko,Vanimole0		
2	Sko,Vanimowut		
1	Sko,Vanimoskv		
14	PAIRS	28.24%	1798 BP
1	Trans-NewGuinea,Teberan,mps		
1	Trans-NewGuinea,Teberan,ppo		
1	PAIRS	20.00%	2322 BP
3	Tor-Kwerba,Orya-Tor,Orya		
2	Tor-Kwerba,Orya-Tor,Tor		
6	PAIRS	8.13%	3693 BP
2	Torricelli,Kombio-Arapesh,Arapesh		
6	Torricelli,Kombio-Arapesh,Kombio		
12	PAIRS	10.15%	3356 BP
2	Torricelli,Marienberg,bvn		

1	Torricelli, Marienberg, but		
2	Torricelli, Marienberg, ele		
1	Torricelli, Marienberg, kms		
1	Torricelli, Marienberg, tua		
1	Torricelli, Marienberg, mwb		
1	Torricelli, Marienberg, urx		
34	PAIRS	10.25%	3339 BP
3	Torricelli, Wapei-Palei, Wapei		
1	Torricelli, Wapei-Palei, Palei		
1	Torricelli, Wapei-Palei, Urat		
7	PAIRS	2.67%	5386 BP
4	Trans-NewGuinea, Asmat-Kamoro, Asmat		
2	Trans-NewGuinea, Asmat-Kamoro, Sabakor		
1	Trans-NewGuinea, Asmat-Kamoro, Kamoro		
1	Trans-NewGuinea, Asmat-Kamoro, Sempan		
21	PAIRS	21.83%	2189 BP
9	Trans-NewGuinea, Ok-Awyu, Awyu-Dumut		
12	Trans-NewGuinea, Ok-Awyu, Ok		
108	PAIRS	5.56%	4272 BP
3	Trans-NewGuinea, Chimbu-Wahgi, Hagen		
5	Trans-NewGuinea, Chimbu-Wahgi, Chimbu		
2	Trans-NewGuinea, Chimbu-Wahgi, Jimi		
31	PAIRS	9.41%	3470 BP
9	Trans-NewGuinea, West, Dani		
40	Trans-NewGuinea, West, WestTimor-Alor-Pantar		
3	Trans-NewGuinea, West, EastTimor		
1	Trans-NewGuinea, West,		
3	Trans-NewGuinea, West, WisselLakes		
3	Trans-NewGuinea, West, WestBomberai		
886	PAIRS	3.26%	5082 BP
1	Trans-NewGuinea, Duna-Bogaya, boq		
1	Trans-NewGuinea, Duna-Bogaya, duc		
1	PAIRS	12.78%	3004 BP
10	Trans-NewGuinea, Kainantu-Goroka, Kainantu		
14	Trans-NewGuinea, Kainantu-Goroka, Gorokan		
140	PAIRS	3.81%	4847 BP
8	Trans-NewGuinea, Engan, Enga		
2	Trans-NewGuinea, Engan, Huli		
4	Trans-NewGuinea, Engan, Angal-Kewa		
56	PAIRS	14.99%	2762 BP
5	Trans-NewGuinea, Finisterre-Huon, Finisterre		
14	Trans-NewGuinea, Finisterre-Huon, Huon		
70	PAIRS	6.08%	4136 BP

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1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
1 EasternTrans-Fly,gdr,
105 PAIRS 49.11% 956 BP

1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
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1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
1 EasternTrans-Fly,bon,
120 PAIRS 67.43% 473 BP

1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
1 EasternTrans-Fly,tof,
21 PAIRS 60.90% 628 BP

1 Languageisolate,nce,
1 Languageisolate,nce,
1 PAIRS 62.06% 599 BP

3 Australian,Gunwingguan,Enindhilyagwa
3 Australian,Gunwingguan,Burarran
1 Australian,Gunwingguan,Djauanic
1 Australian,Gunwingguan,Gagudjuan
1 Australian,Gunwingguan,Ngalkbun
6 Australian,Gunwingguan,Gunwinggic
1 Australian,Gunwingguan,Gungaraganyan
1 Australian,Gunwingguan,Mangarayic
3 Australian,Gunwingguan,Maran
2 Australian,Gunwingguan,Rembargic
1 Australian,Gunwingguan,Wagiman
2 Australian,Gunwingguan,Yangmanic

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274	PAIRS	4.73%	4517 BP
10	Australian,Daly,Bringen-Wagaydy		
5	Australian,Daly,Malagmalag		
3	Australian,Daly,Murrinh-Patha		
95	PAIRS	6.91%	3941 BP
1	Australian,Bunaban,bck		
1	Australian,Bunaban,gni		
1	PAIRS	33.50%	1538 BP
1	Australian,Djeragan,gia		
1	Australian,Djeragan,mep		
1	PAIRS	15.10%	2750 BP
1	Australian,Giimbiyu,err		
1	Australian,Giimbiyu,zme		
1	Australian,Giimbiyu,urc		
3	PAIRS	70.03%	415 BP
1	Australian,Yiwaidjan,Amaragic		
2	Australian,Yiwaidjan,Yiwaidjic		
1	Australian,Yiwaidjan,Margic		
5	PAIRS	13.85%	2882 BP
23	Australian,Pama-Nyungan, South-West		
5	Australian,Pama-Nyungan,Arandic		
21	Australian,Pama-Nyungan,Paman		
6	Australian,Pama-Nyungan,Karnic		
2	Australian,Pama-Nyungan,Worimi		
4	Australian,Pama-Nyungan,Waka-Kabic		
9	Australian,Pama-Nyungan,Maric		
7	Australian,Pama-Nyungan,Kulinic		
16	Australian,Pama-Nyungan,Yuulngu		
1	Australian,Pama-Nyungan,Baagandji		
1	Australian,Pama-Nyungan,Iyora		
3	Australian,Pama-Nyungan,Yuin		
2	Australian,Pama-Nyungan,Yidinic		
1	Australian,Pama-Nyungan,Dyangadi		
4	Australian,Pama-Nyungan,Dyirbalic		
3	Australian,Pama-Nyungan,Wiradhuric		
2	Australian,Pama-Nyungan,Bandjalangic		
2	Australian,Pama-Nyungan,Gumbaynggiric		
1	Australian,Pama-Nyungan,Yalandyic		
1	Australian,Pama-Nyungan,Guugu-Yimidhirr		
1	Australian,Pama-Nyungan,KalaLagawYa		
2	Australian,Pama-Nyungan,Galgadungic		
1	Australian,Pama-Nyungan,Muruwaric		
1	Australian,Pama-Nyungan,Yanyuwan		
1	Australian,Pama-Nyungan,Yotayotic		
1	Australian,Pama-Nyungan,Yugambal		
1	Australian,Pama-Nyungan,Tangic		

6693 PAIRS 5.47% 4295 BP

 1 Australian,WestBarkly,jig
 1 Australian,WestBarkly,nji
 1 Australian,WestBarkly,wmb
 3 PAIRS 16.34% 2631 BP

 1 Australian,Wororan,gww
 2 Australian,Wororan,ung
 2 Australian,Wororan,unp
 1 Australian,Wororan,wub
 13 PAIRS 21.93% 2183 BP

 4 Eskimo-Aleut,Eskimo,Yupik
 4 Eskimo-Aleut,Eskimo,Inuit
 16 PAIRS 27.43% 1842 BP

 21 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak
 1 Na-Dene,NuclearNa-Dene,Tlingit
 21 PAIRS .34% 8532 BP

 8 Algonquian,Algonquian,Eastern
 14 Algonquian,Algonquian,Central
 2 Algonquian,Algonquian,Plains
 1 Algonquian,Algonquian,mjy
 180 PAIRS 10.23% 3343 BP

 5 Iroquoian,NorthernIroquoian,FiveNations
 1 Iroquoian,NorthernIroquoian,Tuscarora-Nottoway
 5 PAIRS 11.42% 3176 BP

 1 Muskogean,Eastern,akz
 1 Muskogean,Eastern,mus
 1 Muskogean,Eastern,cku
 1 Muskogean,Eastern,mik
 6 PAIRS 42.16% 1188 BP

 1 Muskogean,Western,cic
 1 Muskogean,Western,cho
 1 PAIRS 73.34% 345 BP

 2 Caddoan,Northern,Pawnee-Kitsai
 1 Caddoan,Northern,Wichita
 2 PAIRS 12.52% 3035 BP

 10 Siouan,SiouanProper,Central
 3 Siouan,SiouanProper,Southeastern
 2 Siouan,SiouanProper,MissouriValley
 56 PAIRS 11.47% 3169 BP

 58 Uto-Aztecan,SouthernUto-Aztecan,Aztecan
 13 Uto-Aztecan,SouthernUto-Aztecan,Sonoran

754 PAIRS 9.40% 3472 BP
 1 Uto-Aztecan,NorthernUto-Aztecan,Hopi
 7 Uto-Aztecan,NorthernUto-Aztecan,Numic
 2 Uto-Aztecan,NorthernUto-Aztecan,Takic
 1 Uto-Aztecan,NorthernUto-Aztecan,Tubatulabal
 33 PAIRS 16.93% 2576 BP
 1 Wakashan,Northern,hei
 1 Wakashan,Northern,kwk
 1 PAIRS 61.78% 606 BP
 2 Wakashan,Southern,noo
 1 Wakashan,Southern,myh
 2 PAIRS 43.11% 1154 BP
 4 Salishan,CentralSalish,Straits
 2 Salishan,CentralSalish,Halkomelem
 2 Salishan,CentralSalish,Twana
 1 Salishan,CentralSalish,Northern
 1 Salishan,CentralSalish,Squamish
 37 PAIRS 18.29% 2459 BP
 4 Salishan,InteriorSalish,Southern
 2 Salishan,InteriorSalish,Northern
 8 PAIRS 12.98% 2980 BP
 9 Penutian,Yok-Utian,Utian
 2 Penutian,Yok-Utian,Yokuts
 18 PAIRS 5.07% 4413 BP
 1 Penutian,PlateauPenutian,Klamath-Modoc
 2 Penutian,PlateauPenutian,Sahaptin
 2 PAIRS 6.03% 4147 BP
 2 Penutian,Maiduan,mjd
 1 Penutian,Maiduan,nmu
 1 Penutian,Maiduan,nsz
 5 PAIRS 41.29% 1219 BP
 3 Penutian,OregonPenutian,CoastOregon
 1 Penutian,OregonPenutian,Takelma
 3 PAIRS .04% 11886 BP
 1 Hokan,Northern,cid
 5 Hokan,Northern,Karok-Shasta
 7 Hokan,Northern,Pomo
 47 PAIRS 2.22% 5666 BP
 1 Oto-Manguean,Chiapanec-Mangue,cip
 1 Oto-Manguean,Chiapanec-Mangue,cjr
 1 PAIRS 18.46% 2445 BP

1 Oto-Manguean, Chinantecan, chj
1 Oto-Manguean, Chinantecan, cpa
1 Oto-Manguean, Chinantecan, cuc
1 Oto-Manguean, Chinantecan, cle
6 PAIRS 25.80% 1935 BP

7 Oto-Manguean, Mixtecan, Mixtec-Cuicatec
2 Oto-Manguean, Mixtecan, Trique
14 PAIRS 4.65% 4542 BP

2 Oto-Manguean, Otopamean, Matlatzincan
5 Oto-Manguean, Otopamean, Otomian
10 PAIRS 8.34% 3654 BP

5 Oto-Manguean, Popolocan, Chocho-Popolocan
11 Oto-Manguean, Popolocan, Mazatecan
1 Oto-Manguean, Popolocan, Ixcatecan
71 PAIRS 12.52% 3036 BP

1 Oto-Manguean, Subtiaba-Tlapanecan, tpc
2 Oto-Manguean, Subtiaba-Tlapanecan, tpx
1 Oto-Manguean, Subtiaba-Tlapanecan, sut
1 Oto-Manguean, Subtiaba-Tlapanecan, tpl
1 Oto-Manguean, Subtiaba-Tlapanecan, tcf
14 PAIRS 49.35% 948 BP

25 Oto-Manguean, Zapotecan, Zapotec
3 Oto-Manguean, Zapotecan, Chatino
75 PAIRS 11.62% 3149 BP

1 Totonacan, Totonac, top
4 Totonacan, Totonac,
2 Totonacan, Totonac, tos
1 Totonacan, Totonac, tlp
1 Totonacan, Totonac, tlc
1 Totonacan, Totonac, tku
1 Totonacan, Totonac, too
48 PAIRS 65.96% 506 BP

1 Totonacan, Tepehua, tee
1 Totonacan, Tepehua, tpp
1 Totonacan, Tepehua, tpt
3 PAIRS 64.26% 546 BP

4 Mixe-Zoque, Mixe, WesternMixe
1 Mixe-Zoque, Mixe, EasternMixe
2 Mixe-Zoque, Mixe, VeracruzMixe
14 PAIRS 50.94% 900 BP

3 Mixe-Zoque, Zoque, ChiapasZoque
2 Mixe-Zoque, Zoque, OaxacaZoque

2 Mixe-Zoque, Zoque, Veracruz Zoque
 16 PAIRS 54.86% 787 BP

 1 Huavean, huv,
 1 Huavean, huv,
 1 PAIRS 30.08% 1702 BP

 5 Mayan, Kanjobalan-Chujean, Kanjobalan
 3 Mayan, Kanjobalan-Chujean, Chujean
 15 PAIRS 41.14% 1225 BP

 29 Mayan, Quichean-Mamean, Greater Mamean
 23 Mayan, Quichean-Mamean, Greater Quichean
 667 PAIRS 31.14% 1649 BP

 1 Mayan, Huastecan, cob
 1 Mayan, Huastecan, hva
 1 PAIRS 40.29% 1257 BP

 5 Mayan, Cholan-Tzeltalan, Cholan
 4 Mayan, Cholan-Tzeltalan, Tzeltalan
 20 PAIRS 35.91% 1432 BP

 3 Mayan, Yucatecan, Mopan-Itza
 2 Mayan, Yucatecan, Yucatec-Lacandon
 6 PAIRS 54.76% 790 BP

 1 Unclassified, len,
 1 Unclassified, len,
 1 PAIRS 25.02% 1982 BP

 1 Chibchan, Aruak, mbp
 1 Chibchan, Aruak, arh
 1 Chibchan, Aruak, kog
 1 Chibchan, Aruak, chb
 6 PAIRS 14.61% 2800 BP

 1 Chibchan, Guaymi, sab
 2 Chibchan, Guaymi, gym
 2 PAIRS 10.62% 3286 BP

 1 Chibchan, Kuna, kvn
 1 Chibchan, Kuna, cuk
 1 PAIRS 53.68% 820 BP

 1 Chibchan, Rama, gut
 1 Chibchan, Rama, rma
 1 PAIRS 3.19% 5117 BP

 1 Chibchan, Talamanca, brn
 1 Chibchan, Talamanca, bzd
 2 Chibchan, Talamanca, cjp

1	Chibchan, Talamanca, tfr		
9	PAIRS	15.30%	2731 BP
3	Choco, Embera, Northern		
4	Choco, Embera, Southern		
12	PAIRS	51.76%	875 BP
1	Barbacoan, Cayapa-Colorado, cbi		
1	Barbacoan, Cayapa-Colorado, cof		
1	PAIRS	36.23%	1419 BP
1	Barbacoan, Coconucan, gum		
1	Barbacoan, Coconucan, ttk		
1	PAIRS	69.87%	419 BP
10	Tucanoan, EasternTucanoan, Central		
3	Tucanoan, EasternTucanoan, Northern		
30	PAIRS	40.70%	1241 BP
3	Tucanoan, WesternTucanoan, Northern		
1	Tucanoan, WesternTucanoan, Southern		
1	Tucanoan, WesternTucanoan, Tanimuca		
7	PAIRS	22.32%	2156 BP
1	Maku, cbv,		
1	Maku, cbv,		
1	PAIRS	59.35%	667 BP
1	Maku, mbr,		
1	Maku, mbr,		
1	PAIRS	82.35%	169 BP
2	Witotoan, Boran, boa		
1	Witotoan, Boran, bmr		
2	PAIRS	20.69%	2271 BP
3	Witotoan, Witoto, WitotoProper		
1	Witotoan, Witoto, Ocaina		
3	PAIRS	13.66%	2903 BP
1	Yanomam, xsu,		
1	Yanomam, xsu,		
1	PAIRS	53.97%	812 BP
1	Yanomam, shb,		
1	Yanomam, shb,		
1	Yanomam, shb,		
3	PAIRS	44.58%	1103 BP
1	Yanomam, wca,		
1	Yanomam, wca,		
1	PAIRS	47.92%	993 BP

1 Languageisolate,yuz,
1 Languageisolate,yuz,
1 PAIRS 47.93% 992 BP

1 Panoan,South-Central,Amahuaca
5 Panoan,South-Central,Yaminahua-Sharanahua
5 PAIRS 27.24% 1853 BP

2 Panoan,Southeastern,knt
1 Panoan,Southeastern,cbs
2 PAIRS 50.27% 920 BP

1 Panoan,North-Central,kaq
2 Panoan,North-Central,shp
1 Panoan,North-Central,mzr
5 PAIRS 22.64% 2134 BP

1 Panoan,Northern,xpk
1 Panoan,Northern,mpq
1 Panoan,Northern,mcf
3 PAIRS 44.70% 1099 BP

17 Quechuan,QuechuaII,B
1 Quechuan,QuechuaII,C
17 PAIRS 48.51% 974 BP

1 Aymaran,jqr,
1 Aymaran,jqr,
1 PAIRS 78.77% 236 BP

22 Arawakan,Maipuran,NorthernMaipuran
3 Arawakan,Maipuran,WesternMaipuran
17 Arawakan,Maipuran,SouthernMaipuran
1 Arawakan,Maipuran,mzx
5 Arawakan,Maipuran,CentralMaipuran
1 Arawakan,Maipuran,EasternMaipuran
796 PAIRS 6.08% 4134 BP

1 Unclassified,yau,
1 Unclassified,yau,
1 PAIRS 25.01% 1982 BP

8 Carib,Northern,East-WestGuiana
1 Carib,Northern,NorthernBrazil
1 Carib,Northern,Galibi
1 Carib,Northern,WesternGuiana
1 Carib,Northern,Coastal
38 PAIRS 19.37% 2371 BP

2 Carib,Southern,XinguBasin
1 Carib,Southern,SoutheasternColombia

3	Carib, Southern, SouthernGuiana		
11	PAIRS	18.74%	2422 BP
1	Tupi, Monde, cin		
2	Tupi, Monde, gvo		
1	Tupi, Monde, mnd		
1	Tupi, Monde, sru		
9	PAIRS	29.87%	1712 BP
1	Tupi, Munduruku, kyr		
1	Tupi, Munduruku, myu		
1	PAIRS	34.79%	1480 BP
1	Tupi, Tupari, mpu		
1	Tupi, Tupari, skf		
1	Tupi, Tupari, tpr		
3	PAIRS	27.28%	1850 BP
6	Tupi, Tupi-Guarani, SubgroupI		
5	Tupi, Tupi-Guarani, SubgroupVI		
5	Tupi, Tupi-Guarani, SubgroupVIII		
3	Tupi, Tupi-Guarani, SubgroupV		
7	Tupi, Tupi-Guarani, SubgroupIV		
1	Tupi, Tupi-Guarani, SubgroupVII		
3	Tupi, Tupi-Guarani, SubgroupIII		
1	Tupi, Tupi-Guarani, SubgroupII		
1	Tupi, Tupi-Guarani, GuaraniI		
434	PAIRS	33.22%	1550 BP
1	Tupi, Yuruna, jur		
1	Tupi, Yuruna, xiy		
1	PAIRS	49.26%	951 BP
11	Macro-Ge, Ge-Kaingang, Ge		
1	Macro-Ge, Ge-Kaingang, kgp		
1	Macro-Ge, Ge-Kaingang, Kaingang		
23	PAIRS	3.47%	4989 BP
1	Macro-Ge, Yabuti, ark		
1	Macro-Ge, Yabuti, jbt		
1	PAIRS	32.02%	1607 BP
1	Arauan, jaa,		
1	Arauan, jaa,		
1	Arauan, jaa,		
3	PAIRS	67.37%	474 BP
1	Arauan, cul,		
1	Arauan, cul,		
1	PAIRS	40.63%	1244 BP
1	Tacanan, Araona-Tacana, Araona		

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2  Tacanan,Araona-Tacana,Cavinena-Tacana
2  PAIRS    40.04%    1266 BP

1  Uru-Chipaya,cap,
1  Uru-Chipaya,cap,
1  PAIRS    64.40%    543 BP

1  Zamucoan,ayo,
1  Zamucoan,ayo,
1  PAIRS    64.83%    533 BP

1  Mascoian,sap,
1  Mascoian,sap,
1  PAIRS    34.13%    1509 BP

1  Mataco-Guaicuru,Mataco,crt
1  Mataco-Guaicuru,Mataco,mca
1  Mataco-Guaicuru,Mataco,cag
1  Mataco-Guaicuru,Mataco,mzh
1  Mataco-Guaicuru,Mataco,wlv
10 PAIRS    18.96%    2404 BP

1  Mataco-Guaicuru,Guaicuruan,axb
1  Mataco-Guaicuru,Guaicuruan,kbc
1  Mataco-Guaicuru,Guaicuruan,moc
1  Mataco-Guaicuru,Guaicuruan,plg
1  Mataco-Guaicuru,Guaicuruan,tob
10 PAIRS    13.61%    2909 BP

1  Araucanian,arn,
1  Araucanian,arn,
1  Araucanian,arn,
3  PAIRS    61.65%    609 BP

2  SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 3
S0 = 92%, R = .72

4  Khoisan,SouthernAfrica,Central,Tshu-Khwe
2  Khoisan,SouthernAfrica,Central,Nama
1  Khoisan,SouthernAfrica,Central,Kwadi
14 PAIRS    20.87%    2258 BP

1  Khoisan,SouthernAfrica,Northern,ktz
1  Khoisan,SouthernAfrica,Northern,knw
1  Khoisan,SouthernAfrica,Northern,oun
3  PAIRS    27.36%    1846 BP

4  Khoisan,SouthernAfrica,Southern,Hua
1  Khoisan,SouthernAfrica,Southern,!Kwi
4  PAIRS    5.30%    4344 BP

74  Niger-Congo,Atlantic-Congo,Volta-Congo,North

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404 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo
 10 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon
 5 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru
 35 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa
 54371 PAIRS 2.51% 5484 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Bijago
 21 Niger-Congo, Atlantic-Congo, Atlantic, Northern
 10 Niger-Congo, Atlantic-Congo, Atlantic, Southern
 241 PAIRS 1.30% 6480 BP

10 Niger-Congo, Mande, Eastern, Southeastern
 7 Niger-Congo, Mande, Eastern, Eastern
 70 PAIRS 26.31% 1905 BP

9 Niger-Congo, Kordofanian, Heiban, West-Central
 2 Niger-Congo, Kordofanian, Heiban, Eastern
 18 PAIRS 17.55% 2521 BP

33 Niger-Congo, Atlantic-Congo, Ijoid, Ijo
 1 Niger-Congo, Atlantic-Congo, Ijoid, Defaka
 33 PAIRS 16.87% 2582 BP

1 Niger-Congo, Kordofanian, Katla, kcr
 1 Niger-Congo, Kordofanian, Katla, tms
 1 PAIRS 20.72% 2269 BP

5 Niger-Congo, Kordofanian, Talodi, TalodiProper
 1 Niger-Congo, Kordofanian, Talodi, Tegem
 5 PAIRS 4.31% 4658 BP

40 Niger-Congo, Mande, Western, Central-Southwestern
 7 Niger-Congo, Mande, Western, Northwestern
 280 PAIRS 12.42% 3047 BP

1 Nilo-Saharan, Kadugli-Krongo, kcp,
 1 Nilo-Saharan, Kadugli-Krongo, kcp,
 1 PAIRS 56.27% 748 BP

1 Nilo-Saharan, Kadugli-Krongo, kgo,
 1 Nilo-Saharan, Kadugli-Krongo, kgo,
 1 PAIRS 59.95% 652 BP

1 Nilo-Saharan, Kadugli-Krongo, xtc,
 1 Nilo-Saharan, Kadugli-Krongo, xtc,
 1 Nilo-Saharan, Kadugli-Krongo, xtc,
 3 PAIRS 74.88% 313 BP

1 Nilo-Saharan, Kadugli-Krongo, tey,
 1 Nilo-Saharan, Kadugli-Krongo, tey,
 1 PAIRS 42.40% 1179 BP

5 Nilo-Saharan, EasternSudanic, Western, Daju
 1 Nilo-Saharan, EasternSudanic, Western, Temein
 5 PAIRS 2.32% 5601 BP

 1 Nilo-Saharan, EasternSudanic, Eastern, EasternJebel
 1 Nilo-Saharan, EasternSudanic, Eastern, Nara
 4 Nilo-Saharan, EasternSudanic, Eastern, Nubian
 8 Nilo-Saharan, EasternSudanic, Eastern, Surmic
 57 PAIRS 3.22% 5103 BP

 2 Nilo-Saharan, Komuz, Koman, xom
 2 Nilo-Saharan, Komuz, Koman, kmq
 1 Nilo-Saharan, Komuz, Koman, lgn
 1 Nilo-Saharan, Komuz, Koman, udu
 13 PAIRS 17.31% 2542 BP

 1 Nilo-Saharan, Kunama, kun,
 1 Nilo-Saharan, Kunama, kun,
 1 PAIRS 51.18% 893 BP

 7 Nilo-Saharan, CentralSudanic, East, Lendu
 2 Nilo-Saharan, CentralSudanic, East, Mangbetu
 2 Nilo-Saharan, CentralSudanic, East, Mangbutu-Efe
 16 Nilo-Saharan, CentralSudanic, East, Moru-Madi
 208 PAIRS 8.01% 3715 BP

 19 Nilo-Saharan, EasternSudanic, Nilotic, Western
 17 Nilo-Saharan, EasternSudanic, Nilotic, Eastern
 11 Nilo-Saharan, EasternSudanic, Nilotic, Southern
 719 PAIRS 4.76% 4508 BP

 1 Nilo-Saharan, Songhai, Southern, ddn
 2 Nilo-Saharan, Songhai, Southern, dje
 1 Nilo-Saharan, Songhai, Southern, ses
 1 Nilo-Saharan, Songhai, Southern, khq
 1 Nilo-Saharan, Songhai, Southern, hmb
 14 PAIRS 62.85% 580 BP

 1 Nilo-Saharan, Songhai, Northern, dsq
 1 Nilo-Saharan, Songhai, Northern, twq
 1 PAIRS 54.15% 807 BP

 2 Nilo-Saharan, Saharan, Western, Kanuri
 1 Nilo-Saharan, Saharan, Western, Tebu
 2 PAIRS 8.91% 3553 BP

 2 Afro-Asiatic, Berber, Tamasheq, Northern
 2 Afro-Asiatic, Berber, Tamasheq, Southern
 4 PAIRS 63.83% 556 BP

 1 Afro-Asiatic, Berber, Eastern, Awjila-Sokna
 2 Afro-Asiatic, Berber, Eastern, Siwa

2 PAIRS 30.17% 1697 BP
 10 Afro-Asiatic, Berber, Northern, Zenati
 1 Afro-Asiatic, Berber, Northern, Kabyle
 4 Afro-Asiatic, Berber, Northern, Atlas
 54 PAIRS 43.00% 1158 BP
 44 Afro-Asiatic, Chadic, Biu-Mandara, A
 1 Afro-Asiatic, Chadic, Biu-Mandara, B
 44 PAIRS 4.92% 4457 BP
 2 Afro-Asiatic, Cushitic, Central, Southern
 2 Afro-Asiatic, Cushitic, Central, Northern
 2 Afro-Asiatic, Cushitic, Central, Western
 2 Afro-Asiatic, Cushitic, Central, Eastern
 24 PAIRS 30.38% 1686 BP
 4 Afro-Asiatic, Cushitic, East, Saho-Afar
 12 Afro-Asiatic, Cushitic, East, Highland
 7 Afro-Asiatic, Cushitic, East, WesternOmo-Tana
 6 Afro-Asiatic, Cushitic, East, Oromo
 8 Afro-Asiatic, Cushitic, East, Dullay
 4 Afro-Asiatic, Cushitic, East, Konso-Gidole
 1 Afro-Asiatic, Cushitic, East, Yaaku
 2 Afro-Asiatic, Cushitic, East, Rendille-Boni
 2 Afro-Asiatic, Cushitic, East, Somali
 891 PAIRS 12.44% 3045 BP
 1 Afro-Asiatic, Chadic, Masa, hed
 1 Afro-Asiatic, Chadic, Masa, mpg
 2 Afro-Asiatic, Chadic, Masa, mcn
 1 Afro-Asiatic, Chadic, Masa, zim
 1 Afro-Asiatic, Chadic, Masa, mse
 2 Afro-Asiatic, Chadic, Masa, lme
 26 PAIRS 31.13% 1649 BP
 22 Afro-Asiatic, Omotic, North, Gonga-Gimojan
 3 Afro-Asiatic, Omotic, North, Mao
 3 Afro-Asiatic, Omotic, North, Dizoid
 141 PAIRS 11.71% 3137 BP
 18 Afro-Asiatic, Semitic, South, Ethiopian
 4 Afro-Asiatic, Semitic, South, SouthArabian
 72 PAIRS 7.56% 3804 BP
 12 Afro-Asiatic, Semitic, Central, South
 6 Afro-Asiatic, Semitic, Central, Aramaic
 72 PAIRS 16.26% 2638 BP
 1 Afro-Asiatic, Omotic, South, aiw
 1 Afro-Asiatic, Omotic, South, amf
 1 Afro-Asiatic, Omotic, South, dim

3	PAIRS	25.34%	1963 BP
1	Afro-Asiatic, Cushitic, South, wbj		
1	Afro-Asiatic, Cushitic, South, bds		
1	Afro-Asiatic, Cushitic, South, dal		
2	Afro-Asiatic, Cushitic, South, irk		
1	Afro-Asiatic, Cushitic, South, wka		
14	PAIRS	20.20%	2308 BP
1	Afro-Asiatic, Unclassified, bxe,		
1	Afro-Asiatic, Unclassified, bxe,		
1	PAIRS	51.52%	883 BP
26	Afro-Asiatic, Chadic, West, A		
14	Afro-Asiatic, Chadic, West, B		
364	PAIRS	6.23%	4099 BP
1	Indo-European, Armenian, hye,		
1	Indo-European, Armenian, hye,		
1	PAIRS	64.34%	544 BP
1	Indo-European, Baltic, Eastern, lav		
1	Indo-European, Baltic, Eastern, lit		
1	PAIRS	35.05%	1469 BP
2	Indo-European, Celtic, Insular, Brythonic		
3	Indo-European, Celtic, Insular, Goidelic		
6	PAIRS	7.21%	3876 BP
10	Indo-European, Germanic, West, LowSaxon-LowFranconian		
9	Indo-European, Germanic, West, HighGerman		
2	Indo-European, Germanic, West, English		
2	Indo-European, Germanic, West, Frisian		
170	PAIRS	36.71%	1398 BP
5	Indo-European, Germanic, North, EastScandinavian		
2	Indo-European, Germanic, North, WestScandinavian		
10	PAIRS	32.83%	1569 BP
44	Indo-European, Indo-Iranian, Indo-Aryan, Centralzone		
39	Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone		
3	Indo-European, Indo-Iranian, Indo-Aryan, Easternzone		
1	Indo-European, Indo-Iranian, Indo-Aryan, Centralgroup		
2	Indo-European, Indo-Iranian, Indo-Aryan, Nuristani		
1	Indo-European, Indo-Iranian, Indo-Aryan, Southernzone		
1	Indo-European, Indo-Iranian, Indo-Aryan, Northernzone		
2	Indo-European, Indo-Iranian, Indo-Aryan, Sinhalese-Maldivian		
2586	PAIRS	24.79%	1996 BP
47	Indo-European, Indo-Iranian, Iranian, Eastern		
7	Indo-European, Indo-Iranian, Iranian, Western		
329	PAIRS	14.09%	2856 BP

12 Indo-European, Italic, Romance, Italo-Western
 2 Indo-European, Italic, Romance, Eastern
 24 PAIRS 28.96% 1759 BP

1 Indo-European, Slavic, East, bel
 2 Indo-European, Slavic, East, rus
 1 Indo-European, Slavic, East, ukr
 5 PAIRS 39.47% 1288 BP

4 Indo-European, Slavic, South, Western
 2 Indo-European, Slavic, South, Eastern
 8 PAIRS 58.44% 691 BP

2 Indo-European, Slavic, West, Czech-Slovak
 3 Indo-European, Slavic, West, Sorbian
 1 Indo-European, Slavic, West, Lechitic
 11 PAIRS 53.67% 820 BP

1 Uralic, Finnic, est,
 1 Uralic, Finnic, est,
 1 PAIRS 56.61% 739 BP

1 Uralic, Sami, Eastern, smn
 1 Uralic, Sami, Eastern, sjd
 1 Uralic, Sami, Eastern, sms
 3 PAIRS 41.96% 1195 BP

1 Uralic, Permian, Komi, koi
 1 Uralic, Permian, Komi, kpj
 1 PAIRS 78.61% 239 BP

2 Uralic, Sami, Western, Northern
 1 Uralic, Sami, Western, Southern
 2 PAIRS 33.30% 1547 BP

3 Altaic, Mongolic, Eastern, Oirat-Khalkha
 2 Altaic, Mongolic, Eastern, Dagur
 2 Altaic, Mongolic, Eastern, Mongour
 16 PAIRS 22.48% 2145 BP

2 Altaic, Tungusic, Northern, Even
 6 Altaic, Tungusic, Northern, Evenki
 1 Altaic, Tungusic, Northern, Negidal
 20 PAIRS 44.90% 1092 BP

8 Altaic, Tungusic, Southern, Southeast
 3 Altaic, Tungusic, Southern, Southwest
 24 PAIRS 32.26% 1595 BP

1 Altaic, Turkic, Northern, alt
 1 Altaic, Turkic, Northern, dlg

1 Altaic,Turkic,Northern,kjh
 1 Altaic,Turkic,Northern,sah
 1 Altaic,Turkic,Northern,cjs
 1 Altaic,Turkic,Northern,kim
 1 Altaic,Turkic,Northern,tyv
 21 PAIRS 43.35% 1145 BP

 25 Altaic,Turkic,Southern,Turkish
 2 Altaic,Turkic,Southern,Azerbaijani
 1 Altaic,Turkic,Southern,crh
 1 Altaic,Turkic,Southern,slr
 1 Altaic,Turkic,Southern,Turkmenian
 134 PAIRS 48.12% 986 BP

 4 Altaic,Turkic,Western,Uralian
 3 Altaic,Turkic,Western,Ponto-Caspian
 4 Altaic,Turkic,Western,Aralo-Caspian
 40 PAIRS 45.36% 1076 BP

 1 Altaic,Turkic,Eastern,uig
 1 Altaic,Turkic,Eastern,uzn
 1 PAIRS 56.04% 755 BP

 1 Chukotko-Kamchatkan,Northern,Koryak-Alyutor,alr
 1 Chukotko-Kamchatkan,Northern,Koryak-Alyutor,kpy
 1 PAIRS 62.43% 590 BP

 1 Chukotko-Kamchatkan,Southern,itl,
 1 Chukotko-Kamchatkan,Southern,itl,
 1 PAIRS 60.09% 648 BP

 3 Japonic,Ryukyuan,Amami-Okinawan,SouthernAmami-Okinawan
 1 Japonic,Ryukyuan,Amami-Okinawan,NorthernAmami-Okinawan
 3 PAIRS 40.61% 1245 BP

 1 NorthCaucasian,WestCaucasian,Abkhaz-Abazin,abq
 1 NorthCaucasian,WestCaucasian,Abkhaz-Abazin,abk
 1 PAIRS 60.40% 641 BP

 1 NorthCaucasian,WestCaucasian,Circassian,ady
 1 NorthCaucasian,WestCaucasian,Circassian,kbd
 1 PAIRS 63.29% 569 BP

 8 NorthCaucasian,EastCaucasian,Avar-Andic,Andic
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Avar
 8 PAIRS 17.15% 2557 BP

 3 NorthCaucasian,EastCaucasian,Tsezic,EastTsezic
 4 NorthCaucasian,EastCaucasian,Tsezic,WestTsezic
 12 PAIRS 26.34% 1903 BP

 7 NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic

2 NorthCaucasian, EastCaucasian, Lezgic, Archi
 1 NorthCaucasian, EastCaucasian, Lezgic, Udi
 23 PAIRS 12.39% 3052 BP

1 NorthCaucasian, EastCaucasian, Nakh, Batsi
 2 NorthCaucasian, EastCaucasian, Nakh, Chechen-Ingush
 2 PAIRS 41.23% 1222 BP

1 Dravidian, Central, Parji-Gadaba, gdb
 1 Dravidian, Central, Parji-Gadaba, pci
 1 PAIRS 60.34% 642 BP

2 Dravidian, South-Central, Gondi-Kui, Gondi
 4 Dravidian, South-Central, Gondi-Kui, Konda-Kui
 8 PAIRS 33.50% 1538 BP

2 Dravidian, Southern, Tamil-Kannada, Kannada
 7 Dravidian, Southern, Tamil-Kannada, Tamil-Kodagu
 14 PAIRS 28.63% 1777 BP

6 Sino-Tibetan, Tibeto-Burman, Bai, bca
 7 Sino-Tibetan, Tibeto-Burman, Bai, bfc
 5 Sino-Tibetan, Tibeto-Burman, Bai, bfs
 107 PAIRS 34.49% 1494 BP

20 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti
 34 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri
 680 PAIRS 11.37% 3182 BP

4 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish
 4 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish
 1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Naxi
 24 PAIRS 9.63% 3436 BP

1 Sino-Tibetan, Chinese, nan,
 1 Sino-Tibetan, Chinese, nan,
 1 PAIRS 13.93% 2873 BP

1 Sino-Tibetan, Chinese, cmn,
 1 Sino-Tibetan, Chinese, cmn,
 1 PAIRS 55.36% 773 BP

9 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai
 1 Sino-Tibetan, Tibeto-Burman, Karen, Pa'o
 9 PAIRS 19.71% 2345 BP

5 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin
 13 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga
 65 PAIRS 9.79% 3411 BP

2 Sino-Tibetan, Tibeto-Burman, Nungish, duu
 1 Sino-Tibetan, Tibeto-Burman, Nungish, raw

2 PAIRS 25.46% 1955 BP

 2 Sino-Tibetan,Tibeto-Burman,Tangut-Qiang,Qiangic
 1 Sino-Tibetan,Tibeto-Burman,Tangut-Qiang,rGyarong
 2 PAIRS 4.31% 4660 BP

 3 Hmong-Mien,Mienic,Mian-Jin,ium
 1 Hmong-Mien,Mienic,Mian-Jin,mji
 3 PAIRS 55.30% 775 BP

 4 Hmong-Mien,Hmongic,Chuanqiandian,mww
 1 Hmong-Mien,Hmongic,Chuanqiandian,hnj
 1 Hmong-Mien,Hmongic,Chuanqiandian,hmm
 9 PAIRS 29.26% 1744 BP

 1 Tai-Kadai,Hlai,lic,
 1 Tai-Kadai,Hlai,lic,
 1 PAIRS 75.93% 292 BP

 2 Tai-Kadai,Kadai,Yang-Biao,Buyang
 1 Tai-Kadai,Kadai,Yang-Biao,lha
 1 Tai-Kadai,Kadai,Yang-Biao,laq
 5 PAIRS 30.46% 1682 BP

 1 Tai-Kadai,Kadai,Ge-Chi,giw
 1 Tai-Kadai,Kadai,Ge-Chi,gir
 1 Tai-Kadai,Kadai,Ge-Chi,giq
 1 Tai-Kadai,Kadai,Ge-Chi,lbt
 6 PAIRS 28.28% 1796 BP

 44 Tai-Kadai,Kam-Tai,Be-Tai,Tai-Sek
 1 Tai-Kadai,Kam-Tai,Be-Tai,Be
 44 PAIRS 22.13% 2169 BP

 1 Tai-Kadai,Kam-Tai,Kam-Sui,doc
 1 Tai-Kadai,Kam-Tai,Kam-Sui,mkg
 1 Tai-Kadai,Kam-Tai,Kam-Sui,mmd
 1 Tai-Kadai,Kam-Tai,Kam-Sui,mlm
 1 Tai-Kadai,Kam-Tai,Kam-Sui,kmc
 4 Tai-Kadai,Kam-Tai,Kam-Sui,swi
 1 Tai-Kadai,Kam-Tai,Kam-Sui,tct
 39 PAIRS 46.86% 1027 BP

 3 Austro-Asiatic,Mon-Khmer,Aslian,NorthAslian
 1 Austro-Asiatic,Mon-Khmer,Aslian,JahHut
 3 Austro-Asiatic,Mon-Khmer,Aslian,Senoic
 2 Austro-Asiatic,Mon-Khmer,Aslian,SouthAslian
 29 PAIRS 23.46% 2080 BP

 25 Austro-Asiatic,Mon-Khmer,EasternMon-Khmer,Bahnaric
 9 Austro-Asiatic,Mon-Khmer,EasternMon-Khmer,Katuic
 3 Austro-Asiatic,Mon-Khmer,EasternMon-Khmer,Khmer

4 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Pearic
 475 PAIRS 18.05% 2479 BP

4 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khasian
 7 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khmuic
 17 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic
 1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Mang
 243 PAIRS 10.81% 3259 BP

1 Austro-Asiatic, Mon-Khmer, Nicobar, Car
 1 Austro-Asiatic, Mon-Khmer, Nicobar, Nancowry
 1 Austro-Asiatic, Mon-Khmer, Nicobar, Shom Peng
 3 PAIRS 11.56% 3158 BP

1 Austro-Asiatic, Mon-Khmer, Palyu, bbh
 1 Austro-Asiatic, Mon-Khmer, Palyu, ply
 1 PAIRS 14.05% 2861 BP

14 Austro-Asiatic, Munda, North Munda, Kherwari
 1 Austro-Asiatic, Munda, North Munda, Korku
 14 PAIRS 41.58% 1209 BP

2 Austro-Asiatic, Munda, South Munda, Kharia-Juang
 2 Austro-Asiatic, Munda, South Munda, Koraput Munda
 4 PAIRS 17.69% 2510 BP

3 Austro-Asiatic, Mon-Khmer, Viet-Muong, Chut
 1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Muong
 1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Thavung
 3 Austro-Asiatic, Mon-Khmer, Viet-Muong, Vietnamese
 22 PAIRS 20.45% 2289 BP

1 Andamanese, Great Andamanese, Central, acl
 1 Andamanese, Great Andamanese, Central, abj
 1 Andamanese, Great Andamanese, Central, akx
 1 Andamanese, Great Andamanese, Central, aky
 1 Andamanese, Great Andamanese, Central, okj
 1 Andamanese, Great Andamanese, Central, apq
 15 PAIRS 26.72% 1882 BP

1 Andamanese, Great Andamanese, Northern, akm
 1 Andamanese, Great Andamanese, Northern, aci
 1 PAIRS 26.85% 1875 BP

32 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, North and East
 1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, Madurese
 1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, Sundanese
 65 PAIRS 27.37% 1845 BP

26 Austronesian, Malayo-Polynesian, Greater Barito, East
 8 Austronesian, Malayo-Polynesian, Greater Barito, West

1 Austronesian, Malayo-Polynesian, GreaterBarito, Barito-Mahakam
 22 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-Bajaw
 1012 PAIRS 24.23% 2031 BP

108 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian
 1 Austronesian, Malayo-Polynesian, Central-Eastern, Hukumina
 471 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian
 51447 PAIRS 11.92% 3111 BP

1 Austronesian, Malayo-Polynesian, NorthwestSumatra-BarrierIslands, gay
 2 Austronesian, Malayo-Polynesian, NorthwestSumatra-BarrierIslands, Nias
 1 Austronesian, Malayo-Polynesian, NorthwestSumatra-BarrierIslands, Batak
 5 PAIRS 27.79% 1822 BP

2 Austronesian, Malayo-Polynesian, Javanese, jav
 1 Austronesian, Malayo-Polynesian, Javanese, tes
 2 PAIRS 63.45% 566 BP

10 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan
 5 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan
 2 Austronesian, Malayo-Polynesian, NorthBorneo, Melanau-Kajang
 80 PAIRS 24.46% 2016 BP

4 Austronesian, Malayo-Polynesian, Lampung, abl
 6 Austronesian, Malayo-Polynesian, Lampung, kge
 14 Austronesian, Malayo-Polynesian, Lampung, ljp
 164 PAIRS 54.92% 785 BP

1 Austronesian, Malayo-Polynesian, LandDayak, Bakati'
 1 Austronesian, Malayo-Polynesian, LandDayak, Southern
 1 Austronesian, Malayo-Polynesian, LandDayak, Bidayuh
 3 PAIRS 34.11% 1510 BP

75 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine
 2 Austronesian, Malayo-Polynesian, Philippine, Kalamian
 42 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon
 10 Austronesian, Malayo-Polynesian, Philippine, Bashiic
 3 Austronesian, Malayo-Polynesian, Philippine, CentralLuzon
 8 Austronesian, Malayo-Polynesian, Philippine, Bilic
 6 Austronesian, Malayo-Polynesian, Philippine, Sangiric
 5 Austronesian, Malayo-Polynesian, Philippine, Minahasan
 7587 PAIRS 27.65% 1830 BP

1 Austronesian, WesternPlains, CentralWesternPlains, bzg
 2 Austronesian, WesternPlains, CentralWesternPlains, ppu

2 PAIRS 18.63% 2431 BP

 12 Austronesian,Malayo-Polynesian,Celebic,Tomini-Tolitoli
 44 Austronesian,Malayo-Polynesian,Celebic,Eastern
 3 Austronesian,Malayo-Polynesian,Celebic,Kaili-Pamona
 2 Austronesian,Malayo-Polynesian,Celebic,Wotu-Wolio
 814 PAIRS 28.27% 1796 BP

 3 Austronesian,Malayo-Polynesian,SouthSulawesi,Bugis
 5 Austronesian,Malayo-Polynesian,SouthSulawesi,Makassar
 3 Austronesian,Malayo-Polynesian,SouthSulawesi,Northern
 39 PAIRS 48.63% 970 BP

 1 Austronesian,Rukai,dru,
 1 Austronesian,Rukai,dru,
 1 PAIRS 29.58% 1727 BP

 1 EastBird'sHead-Sentani,EastBird'sHead,Meax,mtj
 1 EastBird'sHead-Sentani,EastBird'sHead,Meax,mej
 1 PAIRS 33.52% 1537 BP

 1 EastBird'sHead-Sentani,Sentani,SentaniProper,set
 4 EastBird'sHead-Sentani,Sentani,SentaniProper,tnm
 4 PAIRS 24.66% 2004 BP

 1 Border,Taikat,aos,
 1 Border,Taikat,aos,
 1 Border,Taikat,aos,
 3 PAIRS 29.69% 1722 BP

 1 Border,Taikat,auw,
 1 Border,Taikat,auw,
 1 Border,Taikat,auw,
 1 Border,Taikat,auw,
 1 Border,Taikat,auw,
 10 PAIRS 43.85% 1128 BP

 1 Border,Waris,jet,
 1 Border,Waris,jet,
 1 Border,Waris,jet,
 3 PAIRS 14.84% 2777 BP

 1 Border,Waris,wrs,
 1 Border,Waris,wrs,
 1 PAIRS 34.61% 1488 BP

 1 Trans-NewGuinea,Bosavi,beo,
 1 Trans-NewGuinea,Bosavi,beo,
 1 Trans-NewGuinea,Bosavi,beo,
 3 PAIRS 46.09% 1052 BP

 1 Trans-NewGuinea,Bosavi,bco,

1 Trans-NewGuinea,Bosavi,bco,
1 Trans-NewGuinea,Bosavi,bco,
3 PAIRS 57.84% 706 BP

1 Trans-NewGuinea,Bosavi,etr,
1 Trans-NewGuinea,Bosavi,etr,
1 PAIRS 56.16% 751 BP

1 Trans-NewGuinea,Bosavi,khs,
1 Trans-NewGuinea,Bosavi,khs,
1 PAIRS 52.78% 846 BP

1 Trans-NewGuinea,Bosavi,siq,
1 Trans-NewGuinea,Bosavi,siq,
1 PAIRS 92.77% -12 BP

1 South-CentralPapuan,Yelmek-Maklew,mgf,
1 South-CentralPapuan,Yelmek-Maklew,mgf,
1 PAIRS 88.50% 59 BP

1 South-CentralPapuan,Yelmek-Maklew,jel,
1 South-CentralPapuan,Yelmek-Maklew,jel,
1 PAIRS 37.84% 1352 BP

1 EastGeelvinkBay,Bauzi,bvz,
1 EastGeelvinkBay,Bauzi,bvz,
1 PAIRS 73.44% 343 BP

4 Trans-NewGuinea,Eleman,NuclearEleman,Western
2 Trans-NewGuinea,Eleman,NuclearEleman,Eastern
8 PAIRS 40.31% 1256 BP

1 Trans-NewGuinea,EastStrickland,goi,
1 Trans-NewGuinea,EastStrickland,goi,
1 Trans-NewGuinea,EastStrickland,goi,
3 PAIRS 61.85% 604 BP

6 Trans-NewGuinea,Gogodala-Suki,Gogodala,ggw
1 Trans-NewGuinea,Gogodala-Suki,Gogodala,aac
6 PAIRS 34.47% 1494 BP

1 Trans-NewGuinea,InlandGulf,Minanibai,mcv
1 Trans-NewGuinea,InlandGulf,Minanibai,tsx
1 PAIRS 21.72% 2197 BP

1 Trans-NewGuinea,Kayagar,aqm,
1 Trans-NewGuinea,Kayagar,aqm,
1 PAIRS 93.34% -21 BP

1 Trans-NewGuinea,Kiwaian,kiw,
1 Trans-NewGuinea,Kiwaian,kiw,
1 Trans-NewGuinea,Kiwaian,kiw,

1 Trans-NewGuinea,Kiwaian,kiw,
6 PAIRS 58.37% 692 BP

1 Trans-NewGuinea,Kiwaian,bcf,
1 Trans-NewGuinea,Kiwaian,bcf,
1 PAIRS 59.55% 662 BP

1 Trans-NewGuinea,Kiwaian,kjd,
1 Trans-NewGuinea,Kiwaian,kjd,
1 Trans-NewGuinea,Kiwaian,kjd,
1 Trans-NewGuinea,Kiwaian,kjd,
1 Trans-NewGuinea,Kiwaian,kjd,
10 PAIRS 70.61% 403 BP

2 Trans-NewGuinea,SoutheastPapuan,Kwalean,huf
1 Trans-NewGuinea,SoutheastPapuan,Kwalean,ksj
3 Trans-NewGuinea,SoutheastPapuan,Kwalean,mfw
11 PAIRS 12.55% 3032 BP

4 Tor-Kwerba,GreaterKwerba,Kwerba,Nuclear
2 Tor-Kwerba,GreaterKwerba,Kwerba,WestCoast
8 PAIRS 7.32% 3852 BP

1 Arai-Kwomtari,Kwomtari,Fas,bbf
1 Arai-Kwomtari,Kwomtari,Fas,fqs
1 PAIRS 12.18% 3077 BP

2 LakesPlain,Tariku,East,tty
1 LakesPlain,Tariku,East,bqq
1 LakesPlain,Tariku,East,tds
1 LakesPlain,Tariku,East,ert
2 LakesPlain,Tariku,East,afz
1 LakesPlain,Tariku,East,pas
1 LakesPlain,Tariku,East,wbe
34 PAIRS 21.15% 2238 BP

5 LakesPlain,Tariku,West,tad
3 LakesPlain,Tariku,West,kiy
2 LakesPlain,Tariku,West,fau
31 PAIRS 10.30% 3332 BP

1 LakesPlain,Tariku,Central,dbf
1 LakesPlain,Tariku,Central,tmu
1 PAIRS 40.81% 1237 BP

1 Sepik,LeonhardSchultze,Walio,ttw
1 Sepik,LeonhardSchultze,Walio,wla
1 PAIRS 8.58% 3612 BP

1 Ramu-LowerSepik,Ramu,MiddleRamu,anj
1 Ramu-LowerSepik,Ramu,MiddleRamu,rao
1 PAIRS 9.68% 3428 BP

1	Ramu-LowerSepik, Kambot, kbx,		
1	Ramu-LowerSepik, Kambot, kbx,		
1	PAIRS	73.69%	338 BP
1	Ramu-LowerSepik, Ramu, Ottilien, Borei		
1	Ramu-LowerSepik, Ramu, Ottilien, Watam		
1	PAIRS	45.47%	1073 BP
2	Ramu-LowerSepik, LowerSepik, Nor, xop		
2	Ramu-LowerSepik, LowerSepik, Nor, mtf		
4	PAIRS	34.81%	1479 BP
3	Ramu-LowerSepik, Ramu, Mikarew, geb		
1	Ramu-LowerSepik, Ramu, Mikarew, msy		
3	PAIRS	12.42%	3048 BP
2	Trans-NewGuinea, Marind, Boazi, zik		
6	Trans-NewGuinea, Marind, Boazi, kvg		
12	PAIRS	32.22%	1597 BP
1	Trans-NewGuinea, Marind, Yaqay, bgv		
2	Trans-NewGuinea, Marind, Yaqay, jaq		
2	PAIRS	23.63%	2069 BP
9	Trans-		
	NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Eastern		
2	Trans-		
	NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Central		
2	Trans-		
	NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Western		
40	PAIRS	32.52%	1583 BP
1	South-CentralPapuan, Pahoturi, kit,		
1	South-CentralPapuan, Pahoturi, kit,		
1	South-CentralPapuan, Pahoturi, kit,		
1	South-CentralPapuan, Pahoturi, kit,		
1	South-CentralPapuan, Pahoturi, kit,		
10	PAIRS	34.93%	1474 BP
1	South-CentralPapuan, Waia, knv,		
1	South-CentralPapuan, Waia, knv,		
1	South-CentralPapuan, Waia, knv,		
3	PAIRS	54.16%	806 BP
1	Pauwasi, Western, dmu,		
1	Pauwasi, Western, dmu,		
1	Pauwasi, Western, dmu,		
3	PAIRS	50.58%	910 BP
1	Pauwasi, Eastern, yuj,		
1	Pauwasi, Eastern, yuj,		

1	PAIRS	26.97%	1868 BP
1	Sepik,Ndu,bzf,		
1	Sepik,Ndu,bzf,		
1	Sepik,Ndu,bzf,		
3	PAIRS	58.58%	687 BP
1	Sepik,Ndu,abt,		
1	Sepik,Ndu,abt,		
1	PAIRS	84.30%	133 BP
1	Sepik,SepikHill,Bahinemo,bjh		
1	Sepik,SepikHill,Bahinemo,dju		
1	PAIRS	26.83%	1875 BP
1	Sepik,SepikHill,Sanio,bic		
2	Sepik,SepikHill,Sanio,gbe		
1	Sepik,SepikHill,Sanio,ham		
1	Sepik,SepikHill,Sanio,pin		
1	Sepik,SepikHill,Sanio,sny		
14	PAIRS	18.42%	2448 BP
1	Sko,Krisa,wra,		
1	Sko,Krisa,wra,		
1	PAIRS	47.16%	1017 BP
1	Sko,Vanimowut,		
1	Sko,Vanimowut,		
1	PAIRS	28.21%	1799 BP
1	Trans-NewGuinea,Pawaian,pwa,		
1	Trans-NewGuinea,Pawaian,pwa,		
1	PAIRS	35.56%	1447 BP
1	Torricelli,Kombio-Arapesh,Arapesh,ape		
1	Torricelli,Kombio-Arapesh,Arapesh,aon		
1	PAIRS	84.74%	125 BP
1	Torricelli,Kombio-Arapesh,Kombio,xbi		
1	Torricelli,Kombio-Arapesh,Kombio,tei		
2	Torricelli,Kombio-Arapesh,Kombio,wmo		
2	Torricelli,Kombio-Arapesh,Kombio,ymb		
13	PAIRS	11.11%	3218 BP
1	Torricelli,Marienberg,bvn,		
1	Torricelli,Marienberg,bvn,		
1	PAIRS	36.21%	1419 BP
1	Torricelli,Marienberg,ele,		
1	Torricelli,Marienberg,ele,		
1	PAIRS	71.06%	393 BP

1 Torricelli,Wapei-Palei,Wapei,avt
 1 Torricelli,Wapei-Palei,Wapei,niz
 1 Torricelli,Wapei-Palei,Wapei,van
 3 PAIRS 6.68% 3992 BP

 1 Trans-NewGuinea,Angan,NuclearAngan,byr
 1 Trans-NewGuinea,Angan,NuclearAngan,mcr
 1 PAIRS 4.71% 4523 BP

 1 Trans-NewGuinea,Asmat-Kamoro,Asmat,cns
 1 Trans-NewGuinea,Asmat-Kamoro,Asmat,nks
 1 Trans-NewGuinea,Asmat-Kamoro,Asmat,asc
 1 Trans-NewGuinea,Asmat-Kamoro,Asmat,txt
 6 PAIRS 46.66% 1033 BP

 1 Trans-NewGuinea,Asmat-Kamoro,Sabakor,asi
 1 Trans-NewGuinea,Asmat-Kamoro,Sabakor,irx
 1 PAIRS 63.37% 567 BP

 4 Trans-NewGuinea,Ok-Awyu,Awyu-Dumut,Awyu
 3 Trans-NewGuinea,Ok-Awyu,Awyu-Dumut,Dumut
 1 Trans-NewGuinea,Ok-Awyu,Awyu-Dumut,Korowai
 1 Trans-NewGuinea,Ok-Awyu,Awyu-Dumut,Sawi
 27 PAIRS 13.55% 2916 BP

 2 Trans-NewGuinea,Binanderean,Binandere,bhg
 1 Trans-NewGuinea,Binanderean,Binandere,kpr
 1 Trans-NewGuinea,Binanderean,Binandere,sue
 1 Trans-NewGuinea,Binanderean,Binandere,bjz
 9 PAIRS 27.42% 1842 BP

 2 Trans-NewGuinea,Chimbu-Wahgi,Hagen,Kaugel
 1 Trans-NewGuinea,Chimbu-Wahgi,Hagen,Melpa
 2 PAIRS 34.22% 1505 BP

 2 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,doa
 1 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,gvf
 1 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,kue
 1 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,sst
 9 PAIRS 31.42% 1635 BP

 1 Trans-NewGuinea,Chimbu-Wahgi,Jimi,gam
 1 Trans-NewGuinea,Chimbu-Wahgi,Jimi,nac
 1 PAIRS 50.55% 912 BP

 2 Trans-NewGuinea,West,Dani,Ngalik
 6 Trans-NewGuinea,West,Dani,DaniProper
 1 Trans-NewGuinea,West,Dani,Wano
 20 PAIRS 28.53% 1782 BP

 6 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Gadsup-Auyana-

4 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Tairora
 24 PAIRS 11.64% 3146 BP

5 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Gahuku-Benabena
 2 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Fore
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Gende
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Isabi
 3 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Kamano-Yagaria
 2 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Siane
 76 PAIRS 11.34% 3186 BP

2 Trans-NewGuinea,Engan,Enga,bir
 1 Trans-NewGuinea,Engan,Enga,enq
 1 Trans-NewGuinea,Engan,Enga,net
 1 Trans-NewGuinea,Engan,Enga,kyc
 3 Trans-NewGuinea,Engan,Enga,leq
 24 PAIRS 18.94% 2406 BP

1 Trans-NewGuinea,Engan,Angal-Kewa,kew
 2 Trans-NewGuinea,Engan,Angal-Kewa,kjy
 1 Trans-NewGuinea,Engan,Angal-Kewa,ssx
 5 PAIRS 33.12% 1555 BP

1 Trans-NewGuinea,WestKutubu,faa,
 1 Trans-NewGuinea,WestKutubu,faa,
 1 PAIRS 40.11% 1263 BP

2 Trans-NewGuinea,Finisterre-Huon,Finisterre,Wantoat
 1 Trans-NewGuinea,Finisterre-Huon,Finisterre,Erap
 1 Trans-NewGuinea,Finisterre-Huon,Finisterre,Uruwa
 1 Trans-NewGuinea,Finisterre-Huon,Finisterre,Yupna
 9 PAIRS 13.98% 2868 BP

6 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern
 8 Trans-NewGuinea,Finisterre-Huon,Huon,Western
 48 PAIRS 12.45% 3044 BP

2 Trans-NewGuinea,SoutheastPapuan,Goilalan,Kunimaipa
 1 Trans-NewGuinea,SoutheastPapuan,Goilalan,Fuyug
 2 PAIRS 5.70% 4233 BP

3 Trans-NewGuinea,SoutheastPapuan,Koiarian,Baraic
 4 Trans-NewGuinea,SoutheastPapuan,Koiarian,Koiaric
 12 PAIRS 15.70% 2691 BP

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Tanglapui
 1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Kolana
 37 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar
 1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Bunak
 114 PAIRS 9.04% 3531 BP

21 Trans-NewGuinea,Madang,Croisilles,Pihom

6	Trans-NewGuinea, Madang, Croisilles, Gum		
19	Trans-NewGuinea, Madang, Croisilles, Hanseman		
2	Trans-NewGuinea, Madang, Croisilles, Mugil		
3	Trans-NewGuinea, Madang, Croisilles, Kokon		
3	Trans-NewGuinea, Madang, Croisilles, Isumrud		
1	Trans-NewGuinea, Madang, Croisilles, Kare		
1082	PAIRS	6.19%	4107 BP
5	Trans-NewGuinea, Madang, SouthAdelbertRange, Wanang		
8	Trans-NewGuinea, Madang, SouthAdelbertRange, Josephstaal		
2	Trans-NewGuinea, Madang, SouthAdelbertRange, Kowan		
66	PAIRS	5.96%	4165 BP
5	Trans-NewGuinea, Madang, RaiCoast, Kabenau		
5	Trans-NewGuinea, Madang, RaiCoast, Evapia		
2	Trans-NewGuinea, Madang, RaiCoast, Biyom-Tauya		
4	Trans-NewGuinea, Madang, RaiCoast, Mindjim		
4	Trans-NewGuinea, Madang, RaiCoast, Peka		
7	Trans-NewGuinea, Madang, RaiCoast, Nuru		
3	Trans-NewGuinea, Madang, RaiCoast, Yaganon		
378	PAIRS	9.16%	3511 BP
1	Trans-NewGuinea, SoutheastPapuan, Mailuan, dof		
1	Trans-NewGuinea, SoutheastPapuan, Mailuan, luf		
1	Trans-NewGuinea, SoutheastPapuan, Mailuan, mgu		
3	PAIRS	40.79%	1238 BP
4	Trans-NewGuinea, SoutheastPapuan, Manubaran, kqc		
2	Trans-NewGuinea, SoutheastPapuan, Manubaran, mds		
8	PAIRS	45.70%	1065 BP
1	Trans-NewGuinea, Mek, Eastern, eip		
1	Trans-NewGuinea, Mek, Eastern, mtg		
1	Trans-NewGuinea, Mek, Eastern, kkl		
3	PAIRS	36.08%	1425 BP
6	Trans-NewGuinea, Ok-Awyu, Ok, Mountain		
6	Trans-NewGuinea, Ok-Awyu, Ok, Lowland		
36	PAIRS	17.41%	2534 BP
2	Trans-NewGuinea, West, EastTimor, Fataluku-Oirata		
1	Trans-NewGuinea, West, EastTimor, mkz		
2	PAIRS	26.13%	1916 BP
1	Trans-NewGuinea, West, WisselLakes, ekg		
1	Trans-NewGuinea, West, WisselLakes, mnz		
1	Trans-NewGuinea, West, WisselLakes, wod		
3	PAIRS	23.77%	2060 BP
2	Trans-NewGuinea, Turama-Kikorian, Turama-Omatian, meb		
1	Trans-NewGuinea, Turama-Kikorian, Turama-Omatian, mgx		
2	PAIRS	32.59%	1580 BP

2 Trans-NewGuinea,West,WestBomberai,WestBomberaiProper
 1 Trans-NewGuinea,West,WestBomberai,Karas
 2 PAIRS 9.25% 3497 BP

1 WestPapuan,NorthHalmahera,Galela-Loloda,gbi
 2 WestPapuan,NorthHalmahera,Galela-Loloda,loa
 2 WestPapuan,NorthHalmahera,Galela-Loloda,mqo
 1 WestPapuan,NorthHalmahera,Galela-Loloda,pgu
 1 WestPapuan,NorthHalmahera,Galela-Loloda,tby
 1 WestPapuan,NorthHalmahera,Galela-Loloda,tlb
 26 PAIRS 43.94% 1125 BP

1 WestPapuan,WestBird'sHead,mxn,
 1 WestPapuan,WestBird'sHead,mxn,
 1 WestPapuan,WestBird'sHead,mxn,
 3 PAIRS 49.56% 942 BP

1 WestPapuan,WestBird'sHead,sbg,
 1 WestPapuan,WestBird'sHead,sbg,
 1 PAIRS 39.82% 1275 BP

1 WestPapuan,WestBird'sHead,kps,
 1 WestPapuan,WestBird'sHead,kps,
 1 PAIRS 55.85% 760 BP

1 WestPapuan,Yapen,yva,
 1 WestPapuan,Yapen,yva,
 1 WestPapuan,Yapen,yva,
 1 WestPapuan,Yapen,yva,
 1 WestPapuan,Yapen,yva,
 1 WestPapuan,Yapen,yva,
 15 PAIRS 74.75% 316 BP

1 Australian,Gunwingguan,Enindhilyagwa,aoi
 1 Australian,Gunwingguan,Enindhilyagwa,nid
 1 Australian,Gunwingguan,Enindhilyagwa,nuy
 3 PAIRS 4.07% 4746 BP

5 Australian,Daly,Bringen-Wagaydy,Wagaydy
 5 Australian,Daly,Bringen-Wagaydy,Bringen
 25 PAIRS 20.04% 2320 BP

1 Australian,Gunwingguan,Burarran,bvr
 1 Australian,Gunwingguan,Burarran,gge
 1 Australian,Gunwingguan,Burarran,djj
 3 PAIRS 8.57% 3612 BP

3 Australian,Daly,Malagmalag,DalyProper
 2 Australian,Daly,Malagmalag,MalagmalagProper
 6 PAIRS 31.43% 1635 BP

1 Australian, Gunwingguan, Gunwinggic, wlg
5 Australian, Gunwingguan, Gunwinggic, gup
5 PAIRS 13.24% 2951 BP

1 Australian, Yiwaidjan, Yiwaidjic, ibd
1 Australian, Yiwaidjan, Yiwaidjic, mph
1 PAIRS 36.50% 1407 BP

1 Australian, Laragiyan, lrg,
1 Australian, Laragiyan, lrg,
1 PAIRS 26.79% 1878 BP

1 Australian, Gunwingguan, Maran, Alawic
2 Australian, Gunwingguan, Maran, Mara
2 PAIRS 16.02% 2661 BP

1 Australian, Daly, Murrinh-Patha, mwf
2 Australian, Daly, Murrinh-Patha, nam
2 PAIRS 15.14% 2747 BP

1 Australian, Gunwingguan, Rembargic, nig
1 Australian, Gunwingguan, Rembargic, rmb
1 PAIRS 25.97% 1925 BP

2 Australian, Pama-Nyungan, South-West, Yura
3 Australian, Pama-Nyungan, South-West, Ngumbin
6 Australian, Pama-Nyungan, South-West, Wati
3 Australian, Pama-Nyungan, South-West, CoastalNgayarda
1 Australian, Pama-Nyungan, South-West, Mirning
1 Australian, Pama-Nyungan, South-West, Yinggarda
3 Australian, Pama-Nyungan, South-West, Nyungar
1 Australian, Pama-Nyungan, South-West, InlandNgayarda
1 Australian, Pama-Nyungan, South-West, Wadjari
1 Australian, Pama-Nyungan, South-West, Ngarga
1 Australian, Pama-Nyungan, South-West, Wirangu
228 PAIRS 11.98% 3103 BP

1 Australian, Pama-Nyungan, Arandic, aly
2 Australian, Pama-Nyungan, Arandic, aer
1 Australian, Pama-Nyungan, Arandic, gbb
1 Australian, Pama-Nyungan, Arandic, are
9 PAIRS 26.54% 1892 BP

8 Australian, Pama-Nyungan, Paman, NorthernPama
2 Australian, Pama-Nyungan, Paman, MiddlePama
3 Australian, Pama-Nyungan, Paman, Lamalamic
5 Australian, Pama-Nyungan, Paman, Mayabic
1 Australian, Pama-Nyungan, Paman, SouthernPama
1 Australian, Pama-Nyungan, Paman, Mbariman
1 Australian, Pama-Nyungan, Paman, YirYoront
168 PAIRS 3.64% 4918 BP

2 Australian,Pama-Nyungan,Karnic,Palku
 2 Australian,Pama-Nyungan,Karnic,Karna
 1 Australian,Pama-Nyungan,Karnic,Yarli
 1 Australian,Pama-Nyungan,Karnic,Ngura
 13 PAIRS 14.13% 2851 BP

 1 Australian,Pama-Nyungan,Worimi,awk
 1 Australian,Pama-Nyungan,Worimi,kda
 1 PAIRS 18.12% 2473 BP

 1 Australian,Pama-Nyungan,Waka-Kabic,Kingkel
 2 Australian,Pama-Nyungan,Waka-Kabic,Miyan
 1 Australian,Pama-Nyungan,Waka-Kabic,Than
 5 PAIRS 20.70% 2270 BP

 1 Australian,Pama-Nyungan,Maric,bym
 2 Australian,Pama-Nyungan,Maric,bzr
 1 Australian,Pama-Nyungan,Maric,gnl
 1 Australian,Pama-Nyungan,Maric,gyy
 1 Australian,Pama-Nyungan,Maric,gwu
 1 Australian,Pama-Nyungan,Maric,kgl
 1 Australian,Pama-Nyungan,Maric,zmc
 1 Australian,Pama-Nyungan,Maric,wrg
 35 PAIRS 49.98% 929 BP

 1 Australian,Pama-Nyungan,Kulinic,bn0
 3 Australian,Pama-Nyungan,Kulinic,Kulin
 1 Australian,Pama-Nyungan,Kulinic,dd0
 1 Australian,Pama-Nyungan,Kulinic,mm0
 1 Australian,Pama-Nyungan,Kulinic,ww0
 18 PAIRS 20.49% 2286 BP

 8 Australian,Pama-Nyungan,Yuulngu,Dhuwal
 2 Australian,Pama-Nyungan,Yuulngu,Djinang
 6 Australian,Pama-Nyungan,Yuulngu,Dhangu
 76 PAIRS 33.13% 1555 BP

 1 Australian,Pama-Nyungan,Yuin,dhu
 1 Australian,Pama-Nyungan,Yuin,ng0
 1 Australian,Pama-Nyungan,Yuin,tbh
 3 PAIRS 34.27% 1503 BP

 1 Australian,Pama-Nyungan,Yidinic,dyy
 1 Australian,Pama-Nyungan,Yidinic,yii
 1 PAIRS 40.81% 1237 BP

 1 Australian,Pama-Nyungan,Dyirbalic,dbl
 1 Australian,Pama-Nyungan,Dyirbalic,nyt
 1 Australian,Pama-Nyungan,Dyirbalic,wgy
 1 Australian,Pama-Nyungan,Dyirbalic,wu0
 6 PAIRS 22.60% 2137 BP

1 Australian,Pama-Nyungan,Wiradhuric,kld
1 Australian,Pama-Nyungan,Wiradhuric,wyb
1 Australian,Pama-Nyungan,Wiradhuric,wrh
3 PAIRS 43.82% 1129 BP

1 Australian,Pama-Nyungan,Gumbaynggiric,kgs
1 Australian,Pama-Nyungan,Gumbaynggiric,yg0
1 PAIRS 37.01% 1386 BP

1 Australian,Pama-Nyungan,Galgadungic,ktg
1 Australian,Pama-Nyungan,Galgadungic,ylr
1 PAIRS 19.44% 2366 BP

1 Australian,Wororan,ung,
1 Australian,Wororan,ung,
1 PAIRS 43.97% 1124 BP

1 Australian,Wororan,unp,
1 Australian,Wororan,unp,
1 PAIRS 25.63% 1945 BP

1 Australian,Gunwingguan,Yangmanic,wrr
1 Australian,Gunwingguan,Yangmanic,jng
1 PAIRS 31.97% 1609 BP

1 Eskimo-Aleut,Eskimo,Yupik,Alaskan
3 Eskimo-Aleut,Eskimo,Yupik,Siberian
3 PAIRS 34.20% 1506 BP

1 Eskimo-Aleut,Eskimo,Inuit,esi
1 Eskimo-Aleut,Eskimo,Inuit,ikt
1 Eskimo-Aleut,Eskimo,Inuit,ike
1 Eskimo-Aleut,Eskimo,Inuit,kal
6 PAIRS 60.40% 640 BP

20 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan
1 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Eyak
20 PAIRS 5.82% 4203 BP

1 Algic,Algonquian,Eastern,abe
1 Algic,Algonquian,Eastern,umu
1 Algic,Algonquian,Eastern,mic
1 Algic,Algonquian,Eastern,mof
1 Algic,Algonquian,Eastern,nnt
1 Algic,Algonquian,Eastern,pqm
1 Algic,Algonquian,Eastern,unm
1 Algic,Algonquian,Eastern,wam
28 PAIRS 12.60% 3026 BP

5 Algic,Algonquian,Central,Ojibwa
3 Algic,Algonquian,Central,Cree-Montagnais-Naskapi
1 Algic,Algonquian,Central,sac

2 Algic,Algonquian,Central,mia
 1 Algic,Algonquian,Central,kic
 1 Algic,Algonquian,Central,mez
 1 Algic,Algonquian,Central,pot
 77 PAIRS 15.84% 2678 BP

1 Algic,Algonquian,Plains,bla
 1 Algic,Algonquian,Plains,chy
 1 PAIRS 3.44% 5002 BP

3 Iroquoian,NorthernIroquoian,FiveNations,Seneca-Onondaga
 2 Iroquoian,NorthernIroquoian,FiveNations,Mohawk-Oneida
 6 PAIRS 30.64% 1673 BP

9 Siouan,SiouanProper,Central,MississippiValley
 1 Siouan,SiouanProper,Central,Mandan
 9 PAIRS 11.79% 3127 BP

2 Siouan,SiouanProper,Southeastern,Biloxi-Ofo
 1 Siouan,SiouanProper,Southeastern,Tutelo
 2 PAIRS 25.96% 1926 BP

1 Siouan,SiouanProper,MissouriValley,cro
 1 Siouan,SiouanProper,MissouriValley,hid
 1 PAIRS 27.29% 1850 BP

5 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Cahita
 2 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Corachol
 3 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Tarahumaran
 3 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Tepiman
 61 PAIRS 19.01% 2400 BP

2 Uto-Aztecan,NorthernUto-Aztecan,Numic,Central
 4 Uto-Aztecan,NorthernUto-Aztecan,Numic,Southern
 1 Uto-Aztecan,NorthernUto-Aztecan,Numic,Western
 14 PAIRS 29.40% 1737 BP

1 Wakashan,Southern,noo,
 1 Wakashan,Southern,noo,
 1 PAIRS 42.10% 1190 BP

1 Salishan,CentralSalish,Straits,clm
 3 Salishan,CentralSalish,Straits,str
 3 PAIRS 45.06% 1086 BP

1 Salishan,CentralSalish,Twana,lut
 1 Salishan,CentralSalish,Twana,twa
 1 PAIRS 25.63% 1946 BP

1 Salishan,InteriorSalish,Southern,crd
 1 Salishan,InteriorSalish,Southern,fla
 1 Salishan,InteriorSalish,Southern,oka

1 Salishan, InteriorSalish, Southern, spo
6 PAIRS 29.64% 1724 BP

1 Salishan, InteriorSalish, Northern, lil
1 Salishan, InteriorSalish, Northern, thp
1 PAIRS 27.04% 1864 BP

1 Salishan, Tsamosan, Inland, cjh
1 Salishan, Tsamosan, Inland, cow
1 PAIRS 42.29% 1183 BP

2 Penutian, Yok-Utian, Utian, Costanoan
7 Penutian, Yok-Utian, Utian, Miwokan
14 PAIRS 8.29% 3663 BP

1 Penutian, Maiduan, mjd,
1 Penutian, Maiduan, mjd,
1 PAIRS 45.76% 1063 BP

1 Penutian, PlateauPenutian, Sahaptin, nez
1 Penutian, PlateauPenutian, Sahaptin, uma
1 PAIRS 15.35% 2725 BP

1 Penutian, OregonPenutian, CoastOregon, Yakonan
1 Penutian, OregonPenutian, CoastOregon, Coosan
1 Penutian, OregonPenutian, CoastOregon, Siuslawan
3 PAIRS 3.67% 4902 BP

4 Hokan, Northern, Karok-Shasta, Shasta-Palaihnihan
1 Hokan, Northern, Karok-Shasta, kyh
4 PAIRS 2.93% 5246 BP

6 Hokan, Northern, Pomo, RussianRiverandEastern
1 Hokan, Northern, Pomo, Southeastern
6 PAIRS 41.12% 1226 BP

3 Hokan, Esselen-Yuman, Yuman, Delta-Californian
3 Hokan, Esselen-Yuman, Yuman, UplandYuman
1 Hokan, Esselen-Yuman, Yuman, Kiliwa
3 Hokan, Esselen-Yuman, Yuman, RiverYuman
1 Hokan, Esselen-Yuman, Yuman, Pai
46 PAIRS 27.01% 1865 BP

1 Oto-Manguean, Mixtecan, Mixtec-Cuicatec, Cuicatec
6 Oto-Manguean, Mixtecan, Mixtec-Cuicatec, Mixtec
6 PAIRS 11.69% 3140 BP

1 Oto-Manguean, Mixtecan, Trique, trs
1 Oto-Manguean, Mixtecan, Trique, trc
1 PAIRS 46.96% 1024 BP

2 Oto-Manguean, Otopamean, Otomian, Mazahua

3 Oto-Manguean, Otopamean, Otomian, Otomi
 6 PAIRS 21.48% 2214 BP

2 Oto-Manguean, Popolocan, Chocho-Popolocan, Chocho
 3 Oto-Manguean, Popolocan, Chocho-Popolocan, Popolocan
 6 PAIRS 21.55% 2209 BP

2 Oto-Manguean, Popolocan, Mazatecan, mau
 1 Oto-Manguean, Popolocan, Mazatecan, maj
 2 Oto-Manguean, Popolocan, Mazatecan, maq
 2 Oto-Manguean, Popolocan, Mazatecan, vmz
 1 Oto-Manguean, Popolocan, Mazatecan, vmy
 1 Oto-Manguean, Popolocan, Mazatecan, maa
 1 Oto-Manguean, Popolocan, Mazatecan, vmp
 1 Oto-Manguean, Popolocan, Mazatecan, mzi
 52 PAIRS 55.29% 775 BP

1 Oto-Manguean, Subtiaba-Tlapanecan, tpx,
 1 Oto-Manguean, Subtiaba-Tlapanecan, tpx,
 1 PAIRS 80.33% 207 BP

1 Oto-Manguean, Zapotecan, Zapotec, zaq
 1 Oto-Manguean, Zapotecan, Zapotec, zpo
 1 Oto-Manguean, Zapotecan, Zapotec, zaf
 1 Oto-Manguean, Zapotecan, Zapotec, zad
 1 Oto-Manguean, Zapotecan, Zapotec, zpc
 1 Oto-Manguean, Zapotecan, Zapotec, zpx
 1 Oto-Manguean, Zapotecan, Zapotec, zai
 1 Oto-Manguean, Zapotecan, Zapotec, zpl
 1 Oto-Manguean, Zapotecan, Zapotec, ztp
 1 Oto-Manguean, Zapotecan, Zapotec, zac
 1 Oto-Manguean, Zapotecan, Zapotec, ztq
 1 Oto-Manguean, Zapotecan, Zapotec, zpf
 1 Oto-Manguean, Zapotecan, Zapotec, zpn
 1 Oto-Manguean, Zapotecan, Zapotec, zpi
 1 Oto-Manguean, Zapotecan, Zapotec, zpz
 1 Oto-Manguean, Zapotecan, Zapotec, zts
 1 Oto-Manguean, Zapotecan, Zapotec, ztg
 1 Oto-Manguean, Zapotecan, Zapotec, zae
 1 Oto-Manguean, Zapotecan, Zapotec, zaw
 1 Oto-Manguean, Zapotecan, Zapotec, zpm
 1 Oto-Manguean, Zapotecan, Zapotec, zab
 1 Oto-Manguean, Zapotecan, Zapotec, zaa
 1 Oto-Manguean, Zapotecan, Zapotec, zpu
 1 Oto-Manguean, Zapotecan, Zapotec, zav
 1 Oto-Manguean, Zapotecan, Zapotec, zpq
 300 PAIRS 30.60% 1676 BP

1 Oto-Manguean, Zapotecan, Chatino, cta
 1 Oto-Manguean, Zapotecan, Chatino, ctp
 1 Oto-Manguean, Zapotecan, Chatino, ctz
 3 PAIRS 47.79% 997 BP

1 Totonacan,Totonac,
1 Totonacan,Totonac,
1 Totonacan,Totonac,
1 Totonacan,Totonac,
6 PAIRS 66.66% 490 BP

1 Totonacan,Totonac,tos,
1 Totonacan,Totonac,tos,
1 PAIRS 88.90% 52 BP

2 Mixe-Zoque,Mixe,WesternMixe,mxp
1 Mixe-Zoque,Mixe,WesternMixe,mt0
1 Mixe-Zoque,Mixe,WesternMixe,
5 PAIRS 54.49% 797 BP

1 Mixe-Zoque,Zoque,ChiapasZoque,zoc
1 Mixe-Zoque,Zoque,ChiapasZoque,zos
1 Mixe-Zoque,Zoque,ChiapasZoque,zor
3 PAIRS 71.28% 388 BP

1 Mixe-Zoque,Mixe,VeracruzMixe,plo
1 Mixe-Zoque,Mixe,VeracruzMixe,pos
1 PAIRS 55.83% 760 BP

1 Mixe-Zoque,Zoque,VeracruzZoque,poi
1 Mixe-Zoque,Zoque,VeracruzZoque,poq
1 PAIRS 62.79% 581 BP

4 Mayan,Kanjobalan-Chujean,Kanjobalan,Kanjobal-Jacalteco
1 Mayan,Kanjobalan-Chujean,Kanjobalan,Mocho
4 PAIRS 54.27% 803 BP

4 Mayan,Quichean-Mamean,GreaterMamean,Ixilan
25 Mayan,Quichean-Mamean,GreaterMamean,Mamean
100 PAIRS 34.51% 1492 BP

13 Mayan,Quichean-Mamean,GreaterQuichean,Quichean
3 Mayan,Quichean-Mamean,GreaterQuichean,Kekchi
4 Mayan,Quichean-Mamean,GreaterQuichean,Pocom
1 Mayan,Quichean-Mamean,GreaterQuichean,Sacapulteco
1 Mayan,Quichean-Mamean,GreaterQuichean,Sipacapeno
1 Mayan,Quichean-Mamean,GreaterQuichean,Uspantec
166 PAIRS 48.30% 981 BP

3 Mayan,Cholan-Tzeltalan,Cholan,Chol-Chontal
2 Mayan,Cholan-Tzeltalan,Cholan,Chorti
6 PAIRS 43.26% 1148 BP

2 Mayan,Kanjobalan-Chujean,Chujean,cnm
1 Mayan,Kanjobalan-Chujean,Chujean,toj
2 PAIRS 45.89% 1058 BP

1 Mayan, Yucatecan, Mopan-Itza, itz
2 Mayan, Yucatecan, Mopan-Itza, mop
2 PAIRS 51.35% 887 BP

1 Mayan, Yucatecan, Yucatec-Lacandon, lac
1 Mayan, Yucatecan, Yucatec-Lacandon, yua
1 PAIRS 62.01% 601 BP

1 Mayan, Cholan-Tzeltalan, Tzeltalan, tzh
1 Mayan, Cholan-Tzeltalan, Tzeltalan, tzb
1 Mayan, Cholan-Tzeltalan, Tzeltalan, tzs
1 Mayan, Cholan-Tzeltalan, Tzeltalan, tzz
6 PAIRS 65.76% 511 BP

1 Chibchan, Guaymi, gym,
1 Chibchan, Guaymi, gym,
1 PAIRS 60.27% 644 BP

1 Chibchan, Talamanca, cjp,
1 Chibchan, Talamanca, cjp,
1 PAIRS 40.09% 1264 BP

1 Choco, Embera, Northern, cto
2 Choco, Embera, Northern, emp
2 PAIRS 51.18% 893 BP

1 Choco, Embera, Southern, cmi
1 Choco, Embera, Southern, tdc
2 Choco, Embera, Southern, sja
5 PAIRS 70.88% 397 BP

2 Tucanoan, EasternTucanoan, Central, Southern
4 Tucanoan, EasternTucanoan, Central, Bara
2 Tucanoan, EasternTucanoan, Central, Tatuyo
2 Tucanoan, EasternTucanoan, Central, Desano
36 PAIRS 40.38% 1253 BP

1 Tucanoan, WesternTucanoan, Northern, Coreguaje
2 Tucanoan, WesternTucanoan, Northern, Siona-Secoya
2 PAIRS 38.06% 1343 BP

1 Tucanoan, EasternTucanoan, Northern, pir
1 Tucanoan, EasternTucanoan, Northern, tuo
1 Tucanoan, EasternTucanoan, Northern, gvc
3 PAIRS 56.84% 733 BP

1 Witotoan, Boran, boa,
1 Witotoan, Boran, boa,
1 PAIRS 54.17% 806 BP

2 Witotoan, Witoto, WitotoProper, Minica-Murui

1 Witotoan,Witoto,WitotoProper,Nipode
2 PAIRS 70.07% 414 BP

1 Panoan,Southeastern,knt,
1 Panoan,Southeastern,knt,
1 PAIRS 42.97% 1159 BP

1 Panoan,North-Central,shp,
1 Panoan,North-Central,shp,
1 PAIRS 29.49% 1732 BP

1 Panoan,South-Central,Yaminahua-Sharanahua,pyn
2 Panoan,South-Central,Yaminahua-Sharanahua,ywn
1 Panoan,South-Central,Yaminahua-Sharanahua,mcd
1 Panoan,South-Central,Yaminahua-Sharanahua,yaa
9 PAIRS 38.61% 1321 BP

1 Quechuan,QuechuaII,B,inj
1 Quechuan,QuechuaII,B,quk
4 Quechuan,QuechuaII,B,qvi
2 Quechuan,QuechuaII,B,qxr
2 Quechuan,QuechuaII,B,qvz
5 Quechuan,QuechuaII,B,qug
2 Quechuan,QuechuaII,B,quw
117 PAIRS 74.71% 317 BP

15 Arawakan,Maipuran,NorthernMaipuran,Inland
2 Arawakan,Maipuran,NorthernMaipuran,Wapishanan
5 Arawakan,Maipuran,NorthernMaipuran,Caribbean
115 PAIRS 6.28% 4085 BP

2 Arawakan,Maipuran,WesternMaipuran,ame
1 Arawakan,Maipuran,WesternMaipuran,ccc
2 PAIRS 2.67% 5388 BP

6 Arawakan,Maipuran,SouthernMaipuran,Purus
5 Arawakan,Maipuran,SouthernMaipuran,Pre-Andine
5 Arawakan,Maipuran,SouthernMaipuran,Bolivia-Parana
1 Arawakan,Maipuran,SouthernMaipuran,Unclassified
101 PAIRS 4.91% 4461 BP

1 Arawakan,Maipuran,CentralMaipuran,mmh
1 Arawakan,Maipuran,CentralMaipuran,pab
1 Arawakan,Maipuran,CentralMaipuran,sar
1 Arawakan,Maipuran,CentralMaipuran,wau
1 Arawakan,Maipuran,CentralMaipuran,yaw
10 PAIRS 23.57% 2073 BP

3 Carib,Northern,East-WestGuiana,Macushi-Kapon
3 Carib,Northern,East-WestGuiana,Wayana-Trio
1 Carib,Northern,East-WestGuiana,Waimiri
1 Carib,Northern,East-WestGuiana,Waiwai

22	PAIRS	23.33%	2088 BP
1	Carib, Southern, XinguBasin, bkq		
1	Carib, Southern, XinguBasin, kui		
1	PAIRS	10.67%	3279 BP
1	Carib, Southern, SouthernGuiana, hix		
1	Carib, Southern, SouthernGuiana, kbb		
1	Carib, Southern, SouthernGuiana, mch		
3	PAIRS	29.60%	1726 BP
1	Tupi, Monde, gvo,		
1	Tupi, Monde, gvo,		
1	PAIRS	64.47%	541 BP
1	Tupi, Tupi-Guarani, SubgroupI, guq		
1	Tupi, Tupi-Guarani, SubgroupI, gui		
1	Tupi, Tupi-Guarani, SubgroupI, kgk		
1	Tupi, Tupi-Guarani, SubgroupI, gug		
1	Tupi, Tupi-Guarani, SubgroupI, gun		
1	Tupi, Tupi-Guarani, SubgroupI, xet		
15	PAIRS	33.29%	1547 BP
1	Tupi, Tupi-Guarani, SubgroupVI, adw		
1	Tupi, Tupi-Guarani, SubgroupVI, api		
2	Tupi, Tupi-Guarani, SubgroupVI, pah		
1	Tupi, Tupi-Guarani, SubgroupVI, urz		
9	PAIRS	55.92%	758 BP
1	Tupi, Tupi-Guarani, SubgroupVIII, aan		
1	Tupi, Tupi-Guarani, SubgroupVIII, gvj		
1	Tupi, Tupi-Guarani, SubgroupVIII, urb		
1	Tupi, Tupi-Guarani, SubgroupVIII, oym		
1	Tupi, Tupi-Guarani, SubgroupVIII, pto		
10	PAIRS	44.01%	1122 BP
1	Tupi, Tupi-Guarani, SubgroupV, awt		
1	Tupi, Tupi-Guarani, SubgroupV, asn		
1	Tupi, Tupi-Guarani, SubgroupV, kyz		
3	PAIRS	33.15%	1554 BP
1	Tupi, Tupi-Guarani, SubgroupIV, asu		
1	Tupi, Tupi-Guarani, SubgroupIV, avv		
1	Tupi, Tupi-Guarani, SubgroupIV, gub		
1	Tupi, Tupi-Guarani, SubgroupIV, pak		
1	Tupi, Tupi-Guarani, SubgroupIV, mdz		
1	Tupi, Tupi-Guarani, SubgroupIV, taf		
1	Tupi, Tupi-Guarani, SubgroupIV, tqb		
21	PAIRS	48.04%	989 BP
1	Tupi, Tupi-Guarani, SubgroupIII, cod		
1	Tupi, Tupi-Guarani, SubgroupIII, yrl		

1 Tupi, Tupi-Guarani, SubgroupIII, omg
 3 PAIRS 43.86% 1127 BP

1 Macro-Ge, Bororo, BororoProper, bor
 1 Macro-Ge, Bororo, BororoProper, umo
 1 PAIRS 34.63% 1487 BP

8 Macro-Ge, Ge-Kaingang, Ge, Northwest
 3 Macro-Ge, Ge-Kaingang, Ge, Central
 24 PAIRS 12.62% 3023 BP

1 Tacanan, Araona-Tacana, Cavinena-Tacana, Cavinena
 1 Tacanan, Araona-Tacana, Cavinena-Tacana, TacanaProper
 1 PAIRS 47.87% 994 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 4
 S0 = 92%, R = .72

2 Khoisan, SouthernAfrica, Central, Tshu-Khwe, Southwest
 2 Khoisan, SouthernAfrica, Central, Tshu-Khwe, Northwest
 4 PAIRS 48.43% 977 BP

1 Khoisan, SouthernAfrica, Central, Nama, kqz
 1 Khoisan, SouthernAfrica, Central, Nama, naq
 1 PAIRS 57.32% 720 BP

1 Khoisan, SouthernAfrica, Southern, Hua, huc
 3 Khoisan, SouthernAfrica, Southern, Hua, nmh
 3 PAIRS -2.31%

50 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
 Ubangi
 24 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur
 1200 PAIRS 2.67% 5387 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Akpes
 258 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
 Congo, Bantoid
 28 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
 Congo, CrossRiver
 4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid
 27 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
 Congo, Idomoid
 5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbooid
 20 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji
 4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Oko
 45 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
 Congo, Plateau
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
 Congo, Jukunoid

6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan
 46303 PAIRS 3.58% 4940 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dkl
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dti
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dgb
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dts
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, djm
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dtu
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dwl
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dym
 42 PAIRS 21.65% 2202 BP

5 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben
 5 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura
 25 PAIRS 30.65% 1673 BP

1 Niger-Congo, Mande, Eastern, Eastern, Bissa
 6 Niger-Congo, Mande, Eastern, Eastern, Busa
 6 PAIRS 25.83% 1933 BP

6 Niger-Congo, Kordofanian, Heiban, West-Central, Central
 2 Niger-Congo, Kordofanian, Heiban, West-Central, Western
 1 Niger-Congo, Kordofanian, Heiban, West-Central, Shirumba
 20 PAIRS 25.67% 1943 BP

1 Niger-Congo, Kordofanian, Heiban, Eastern, fuj
 1 Niger-Congo, Kordofanian, Heiban, Eastern, wrn
 1 PAIRS 23.65% 2068 BP

2 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, East
 2 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, West
 24 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, WestIjo
 1 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, InlandIjo
 3 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, Eastern
 1 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, EastNkoroo
 247 PAIRS 44.89% 1092 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Eastern
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Western
 6 PAIRS 20.08% 2317 BP

27 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo
 8 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank
 216 PAIRS 5.78% 4212 BP

8 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak
 2 Niger-Congo, Atlantic-
 Congo, Atlantic, Northern, EasternSenegal-Guinea
 5 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian
 5 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Mbulungish-
 Nalu
 161 PAIRS 3.32% 5055 BP

 9 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel
 1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Limba
 9 PAIRS 4.64% 4546 BP

 2 Niger-Congo, Kordofanian, Talodi, TalodiProper, Ngile-Dengebu
 1 Niger-Congo, Kordofanian, Talodi, TalodiProper, Jomang
 1 Niger-Congo, Kordofanian, Talodi, TalodiProper, Nding
 1 Niger-Congo, Kordofanian, Talodi, TalodiProper, Tocho
 9 PAIRS 36.62% 1402 BP

 35 Niger-Congo, Mande, Western, Central-Southwestern, Central
 5 Niger-Congo, Mande, Western, Central-
 Southwestern, Southwestern
 175 PAIRS 7.65% 3785 BP

 3 Niger-Congo, Mande, Western, Northwestern, Samogo
 4 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo
 12 PAIRS 6.49% 4036 BP

 10 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-
 Bagirmi
 2 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Bongo-Baka
 4 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Kara
 1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sinyar
 84 PAIRS 24.94% 1987 BP

 2 Nilo-Saharan, EasternSudanic, Western, Daju, EasternDaju
 3 Nilo-Saharan, EasternSudanic, Western, Daju, WesternDaju
 6 PAIRS 27.99% 1811 BP

 1 Nilo-Saharan, Komuz, Gumuz, guk,
 1 Nilo-Saharan, Komuz, Gumuz, guk,
 1 Nilo-Saharan, Komuz, Gumuz, guk,
 3 PAIRS 52.95% 841 BP

 1 Nilo-Saharan, Komuz, Koman, xom,
 1 Nilo-Saharan, Komuz, Koman, xom,
 1 PAIRS 11.31% 3191 BP

 1 Nilo-Saharan, Komuz, Koman, kmq,
 1 Nilo-Saharan, Komuz, Koman, kmq,
 1 PAIRS 51.16% 893 BP

 6 Nilo-Saharan, CentralSudanic, East, Lendu, led
 1 Nilo-Saharan, CentralSudanic, East, Lendu, niy
 6 PAIRS 28.65% 1776 BP

 17 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo

2 Nilo-Saharan, EasternSudanic, Nilotic, Western, Dinka-Nuer
 34 PAIRS 16.37% 2627 BP

1 Nilo-Saharan, CentralSudanic, East, Mangbutu-Efe, les
 1 Nilo-Saharan, CentralSudanic, East, Mangbutu-Efe, mdi
 1 PAIRS 47.25% 1014 BP

7 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern
 5 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central
 4 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern
 83 PAIRS 45.47% 1073 BP

6 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari
 11 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-Teso
 66 PAIRS 14.86% 2775 BP

6 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga
 5 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Kalenjin
 30 PAIRS 13.43% 2928 BP

1 Nilo-Saharan, EasternSudanic, Eastern, Nubian, Western
 1 Nilo-Saharan, EasternSudanic, Eastern, Nubian, Northern
 2 Nilo-Saharan, EasternSudanic, Eastern, Nubian, Central
 5 PAIRS 9.70% 3424 BP

1 Nilo-Saharan, Songhai, Southern, dje,
 1 Nilo-Saharan, Songhai, Southern, dje,
 1 PAIRS 55.50% 769 BP

7 Nilo-Saharan, EasternSudanic, Eastern, Surmic, South
 1 Nilo-Saharan, EasternSudanic, Eastern, Surmic, North
 7 PAIRS 8.58% 3611 BP

1 Nilo-Saharan, Saharan, Western, Kanuri, knc
 1 Nilo-Saharan, Saharan, Western, Kanuri, kby
 1 PAIRS 62.19% 596 BP

3 Afro-Asiatic, Berber, Northern, Zenati, East
 1 Afro-Asiatic, Berber, Northern, Zenati, Ghomara
 3 Afro-Asiatic, Berber, Northern, Zenati, Mzab-Wargla
 3 Afro-Asiatic, Berber, Northern, Zenati, Riff
 36 PAIRS 39.91% 1271 BP

1 Afro-Asiatic, Berber, Tamasheq, Southern, thz
 1 Afro-Asiatic, Berber, Tamasheq, Southern, taq
 1 PAIRS 58.66% 685 BP

3 Afro-Asiatic, Berber, Northern, Atlas, tzm
 1 Afro-Asiatic, Berber, Northern, Atlas, shi
 3 PAIRS 58.15% 698 BP

11 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8

7 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3
 6 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1
 9 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2
 5 Afro-Asiatic,Chadic,Biu-Mandara,A,A.4
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.7
 5 Afro-Asiatic,Chadic,Biu-Mandara,A,A.5
 799 PAIRS 7.49% 3817 BP

4 Afro-Asiatic,Chadic,East,B,B.1
 1 Afro-Asiatic,Chadic,East,B,B.2
 4 PAIRS 7.76% 3765 BP

2 Afro-Asiatic,Cushitic,East,Saho-Afar,aar
 2 Afro-Asiatic,Cushitic,East,Saho-Afar,ssy
 4 PAIRS 45.81% 1061 BP

1 Afro-Asiatic,Cushitic,East,Highland,alw
 2 Afro-Asiatic,Cushitic,East,Highland,bji
 2 Afro-Asiatic,Cushitic,East,Highland,drs
 2 Afro-Asiatic,Cushitic,East,Highland,hdy
 2 Afro-Asiatic,Cushitic,East,Highland,ktb
 1 Afro-Asiatic,Cushitic,East,Highland,liq
 2 Afro-Asiatic,Cushitic,East,Highland,sid
 61 PAIRS 40.22% 1259 BP

2 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,arv
 2 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,bsw
 2 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,dsh
 1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,elo
 18 PAIRS 16.70% 2597 BP

2 Afro-Asiatic,Cushitic,East,Oromo,gax
 1 Afro-Asiatic,Cushitic,East,Oromo,hae
 2 Afro-Asiatic,Cushitic,East,Oromo,gaz
 1 Afro-Asiatic,Cushitic,East,Oromo,orc
 13 PAIRS 63.46% 565 BP

2 Afro-Asiatic,Cushitic,East,Dullay,dox
 4 Afro-Asiatic,Cushitic,East,Dullay,gwd
 2 Afro-Asiatic,Cushitic,East,Dullay,tsb
 20 PAIRS 20.37% 2295 BP

2 Afro-Asiatic,Cushitic,East,Konso-Gidole,gdl
 2 Afro-Asiatic,Cushitic,East,Konso-Gidole,kxc
 4 PAIRS 44.86% 1093 BP

1 Afro-Asiatic,Chadic,Masa,mcn,
 1 Afro-Asiatic,Chadic,Masa,mcn,
 1 PAIRS 31.84% 1615 BP

1 Afro-Asiatic,Chadic,Masa,lme,
 1 Afro-Asiatic,Chadic,Masa,lme,

1	PAIRS	53.00%	839 BP
16	Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan		
6	Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gonga		
96	PAIRS	15.76%	2686 BP
2	Afro-Asiatic, Omotic, North, Mao, West		
1	Afro-Asiatic, Omotic, North, Mao, East		
2	PAIRS	41.58%	1209 BP
1	Afro-Asiatic, Omotic, North, Dizoid, mdx		
1	Afro-Asiatic, Omotic, North, Dizoid, noz		
1	Afro-Asiatic, Omotic, North, Dizoid, she		
3	PAIRS	36.20%	1420 BP
14	Afro-Asiatic, Semitic, South, Ethiopian, South		
4	Afro-Asiatic, Semitic, South, Ethiopian, North		
56	PAIRS	18.90%	2408 BP
11	Afro-Asiatic, Semitic, Central, South, Arabic		
1	Afro-Asiatic, Semitic, Central, South, Canaanite		
11	PAIRS	18.62%	2431 BP
1	Afro-Asiatic, Semitic, South, SouthArabian, hss		
1	Afro-Asiatic, Semitic, South, SouthArabian, gdq		
1	Afro-Asiatic, Semitic, South, SouthArabian, shv		
1	Afro-Asiatic, Semitic, South, SouthArabian, sqt		
6	PAIRS	34.10%	1510 BP
1	Afro-Asiatic, Cushitic, South, irk,		
1	Afro-Asiatic, Cushitic, South, irk,		
1	PAIRS	64.78%	534 BP
6	Afro-Asiatic, Chadic, West, A, A.3		
9	Afro-Asiatic, Chadic, West, A, A.1		
11	Afro-Asiatic, Chadic, West, A, A.2		
219	PAIRS	8.25%	3670 BP
2	Afro-Asiatic, Chadic, West, B, B.1		
10	Afro-Asiatic, Chadic, West, B, B.3		
2	Afro-Asiatic, Chadic, West, B, B.2		
44	PAIRS	3.45%	4996 BP
1	Indo-European, Celtic, Insular, Brythonic, bre		
1	Indo-European, Celtic, Insular, Brythonic, cym		
1	PAIRS	42.60%	1172 BP
1	Indo-European, Celtic, Insular, Goidelic, gla		
1	Indo-European, Celtic, Insular, Goidelic, gle		
1	Indo-European, Celtic, Insular, Goidelic, glv		
3	PAIRS	24.83%	1994 BP

6 Indo-European, Germanic, West, LowSaxon-
 LowFranconian, LowFranconian
 1 Indo-European, Germanic, West, LowSaxon-LowFranconian, frs
 3 Indo-European, Germanic, West, LowSaxon-
 LowFranconian, LowSaxon
 27 PAIRS 49.45% 945 BP

8 Indo-European, Germanic, West, HighGerman, German
 1 Indo-European, Germanic, West, HighGerman, Yiddish
 8 PAIRS 48.66% 970 BP

1 Indo-European, Germanic, West, English, eng
 1 Indo-European, Germanic, West, English, sco
 1 PAIRS 58.62% 686 BP

1 Indo-European, Germanic, North, WestScandinavian, fao
 1 Indo-European, Germanic, North, WestScandinavian, isl
 1 PAIRS 38.75% 1316 BP

1 Indo-European, Germanic, West, Frisian, fry
 1 Indo-European, Germanic, West, Frisian, frr
 1 PAIRS 50.19% 922 BP

14 Indo-European, Indo-Iranian, Indo-
 Aryan, Centralzone, Rajasthani
 27 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani
 1 Indo-European, Indo-Iranian, Indo-
 Aryan, Centralzone, Gujarati
 2 Indo-European, Indo-Iranian, Indo-
 Aryan, Centralzone, WesternHindi
 503 PAIRS 25.89% 1930 BP

22 Indo-European, Indo-Iranian, Indo-
 Aryan, Northwesternzone, Dardic
 17 Indo-European, Indo-Iranian, Indo-
 Aryan, Northwesternzone, Lahnda
 374 PAIRS 21.78% 2193 BP

2 Indo-European, Indo-Iranian, Indo-
 Aryan, Easternzone, Bengali-Assamese
 1 Indo-European, Indo-Iranian, Indo-Aryan, Easternzone, Bihari
 2 PAIRS 29.63% 1724 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Nuristani, bsh
 1 Indo-European, Indo-Iranian, Indo-Aryan, Nuristani, xvi
 1 PAIRS 54.35% 801 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Sinhalese-
 Maldivian, sin
 1 Indo-European, Indo-Iranian, Indo-Aryan, Sinhalese-
 Maldivian, ved
 1 PAIRS 28.84% 1765 BP

44	Indo-European, Indo-Iranian, Iranian, Eastern, Southeastern		
3	Indo-European, Indo-Iranian, Iranian, Eastern, Northeastern		
132	PAIRS	8.43%	3638 BP
4	Indo-European, Indo-Iranian, Iranian, Western, Southwestern		
3	Indo-European, Indo-Iranian, Iranian, Western, Northwestern		
12	PAIRS	22.17%	2166 BP
10	Indo-European, Italic, Romance, Italo-Western, Western		
2	Indo-European, Italic, Romance, Italo-Western, Italo-		
	Dalmatian		
20	PAIRS	32.15%	1600 BP
1	Indo-European, Slavic, South, Western, bos		
1	Indo-European, Slavic, South, Western, hrv		
1	Indo-European, Slavic, South, Western, srp		
1	Indo-European, Slavic, South, Western, slv		
6	PAIRS	74.90%	313 BP
1	Indo-European, Slavic, South, Eastern, bul		
1	Indo-European, Slavic, South, Eastern, mkd		
1	PAIRS	67.58%	470 BP
1	Indo-European, Slavic, West, Czech-Slovak, ces		
1	Indo-European, Slavic, West, Czech-Slovak, slk		
1	PAIRS	67.18%	479 BP
2	Indo-European, Slavic, West, Sorbian, dsb		
1	Indo-European, Slavic, West, Sorbian, hsb		
2	PAIRS	68.78%	443 BP
1	Indo-European, Slavic, East, rus,		
1	Indo-European, Slavic, East, rus,		
1	PAIRS	45.64%	1067 BP
1	Uralic, Sami, Western, Northern, smj		
1	Uralic, Sami, Western, Northern, sme		
1	PAIRS	40.76%	1239 BP
2	Altaic, Mongolic, Eastern, Oirat-Khalkha, Khalkha-Buriat		
1	Altaic, Mongolic, Eastern, Oirat-Khalkha, Oirat-Kalmyk-		
	Darkhat		
2	PAIRS	32.23%	1596 BP
1	Altaic, Mongolic, Eastern, Mongour, mjpg		
1	Altaic, Mongolic, Eastern, Mongour, sce		
1	PAIRS	30.83%	1664 BP
5	Altaic, Tungusic, Northern, Evenki, evn		
1	Altaic, Tungusic, Northern, Evenki, orh		
5	PAIRS	67.42%	473 BP

6 Altaic,Tungusic,Southern,Southeast,Nana j
 2 Altaic,Tungusic,Southern,Southeast,Udihe
 12 PAIRS 47.50% 1006 BP

 2 Altaic,Tungusic,Southern,Southwest,mnc
 1 Altaic,Tungusic,Southern,Southwest,sjo
 2 PAIRS 53.27% 832 BP

 22 Altaic,Turkic,Southern,Turkish,kmz
 1 Altaic,Turkic,Southern,Turkish,gag
 2 Altaic,Turkic,Southern,Turkish,tur
 68 PAIRS 46.53% 1037 BP

 1 Altaic,Turkic,Southern,Azerbaijani,azj
 1 Altaic,Turkic,Southern,Azerbaijani,klj
 1 PAIRS 49.78% 935 BP

 1 Altaic,Turkic,Western,Uralian,bak
 3 Altaic,Turkic,Western,Uralian,tat
 3 PAIRS 52.91% 842 BP

 1 Altaic,Turkic,Western,Ponto-Caspian,krc
 1 Altaic,Turkic,Western,Ponto-Caspian,kdr
 1 Altaic,Turkic,Western,Ponto-Caspian,kum
 3 PAIRS 46.71% 1032 BP

 1 Altaic,Turkic,Western,Aralo-Caspian,kaa
 1 Altaic,Turkic,Western,Aralo-Caspian,kaz
 1 Altaic,Turkic,Western,Aralo-Caspian,kir
 1 Altaic,Turkic,Western,Aralo-Caspian,nog
 6 PAIRS 62.84% 580 BP

 2 Japonic,Ryukyuan,Amami-Okinawan,SouthernAmami-Okinawan,ryu
 1 Japonic,Ryukyuan,Amami-Okinawan,SouthernAmami-Okinawan,xug
 2 PAIRS 63.38% 567 BP

 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,akv
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,ani
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,kva
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,bph
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,cji
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,gdo
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,kpt
 1 NorthCaucasian,EastCaucasian,Avar-Andic,Andic,tin
 28 PAIRS 40.68% 1242 BP

 2 NorthCaucasian,EastCaucasian,Tsezic,EastTsezic,kap
 1 NorthCaucasian,EastCaucasian,Tsezic,EastTsezic,huz
 2 PAIRS 39.36% 1292 BP

[illegible]

1 Sino-Tibetan, Tibeto-Burman, Bai, bfs,
 1 Sino-Tibetan, Tibeto-Burman, Bai, bfs,
 1 Sino-Tibetan, Tibeto-Burman, Bai, bfs,
 1 Sino-Tibetan, Tibeto-Burman, Bai, bfs,
 1 Sino-Tibetan, Tibeto-Burman, Bai, bfs,
 10 PAIRS 49.79% 935 BP

9 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo
 6 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Konyak
 54 PAIRS 14.79% 2782 BP

8 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepang-Sunwari
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Newari
 11 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti
 107 PAIRS 13.42% 2930 BP

5 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish
 28 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Lepcha
 173 PAIRS 13.01% 2977 BP

2 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish, Northern
 1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish, Southern
 1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish, Unclassified
 5 PAIRS 24.87% 1991 BP

3 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Southern
 2 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Northern
 6 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central
 36 PAIRS 17.30% 2543 BP

2 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Northern
 2 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Southern
 4 PAIRS 12.54% 3033 BP

1 Sino-Tibetan, Tibeto-Burman, Unclassified, sjl,
 1 Sino-Tibetan, Tibeto-Burman, Unclassified, sjl,
 1 PAIRS 72.99% 352 BP

3 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Bghai
 5 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Sgaw
 23 PAIRS 22.86% 2120 BP

2 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Central
 3 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Northern
 6 PAIRS 38.94% 1309 BP

 3 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Ao
 5 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri
 4 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Zeme
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Tangkhul
 59 PAIRS 9.15% 3514 BP

 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, apt
 2 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, adi
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, bgg
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, clk
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, mxj
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, mrg
 3 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, dap
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, suv
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, mhu
 62 PAIRS 17.40% 2535 BP

 1 Sino-Tibetan, Tibeto-Burman, Nungish, duu,
 1 Sino-Tibetan, Tibeto-Burman, Nungish, duu,
 1 PAIRS 31.62% 1625 BP

 1 Hmong-Mien, Mienic, Mian-Jin, ium,
 1 Hmong-Mien, Mienic, Mian-Jin, ium,
 1 Hmong-Mien, Mienic, Mian-Jin, ium,
 3 PAIRS 64.14% 549 BP

 1 Hmong-Mien, Hmongic, Chuanqiandian, mww,
 1 Hmong-Mien, Hmongic, Chuanqiandian, mww,
 1 Hmong-Mien, Hmongic, Chuanqiandian, mww,
 1 Hmong-Mien, Hmongic, Chuanqiandian, mww,
 6 PAIRS 64.46% 542 BP

 41 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai
 3 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Sek
 123 PAIRS 43.41% 1143 BP

 1 Tai-Kadai, Kam-Tai, Kam-Sui, swi,
 1 Tai-Kadai, Kam-Tai, Kam-Sui, swi,
 1 Tai-Kadai, Kam-Tai, Kam-Sui, swi,
 1 Tai-Kadai, Kam-Tai, Kam-Sui, swi,
 6 PAIRS 72.57% 361 BP

 1 Austro-Asiatic, Mon-Khmer, Aslian, NorthAslian, Chewong
 1 Austro-Asiatic, Mon-Khmer, Aslian, NorthAslian, Eastern
 1 Austro-Asiatic, Mon-Khmer, Aslian, NorthAslian, Western

3 PAIRS 31.56% 1628 BP

 2 Austro-Asiatic, Mon-Khmer, Aslian, Senoic, sea
 1 Austro-Asiatic, Mon-Khmer, Aslian, Senoic, tea
 2 PAIRS 40.36% 1254 BP

 1 Austro-Asiatic, Mon-Khmer, Aslian, SouthAslian, szc
 1 Austro-Asiatic, Mon-Khmer, Aslian, SouthAslian, sza
 1 PAIRS 38.10% 1342 BP

 3 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, CentralBahnaric
 8 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric
 8 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric
 6 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, NorthBahnaric
 226 PAIRS 32.49% 1584 BP

 5 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Katuic, WestKatuic
 4 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Katuic, EastKatuic
 20 PAIRS 35.11% 1466 BP

 2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khasian, kha
 1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khasian, pbv
 1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khasian, aml
 5 PAIRS 38.12% 1341 BP

 2 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Khmer, khm
 1 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Khmer, kxm
 2 PAIRS 43.76% 1131 BP

 1 Austro-Asiatic, Mon-Khmer, Monic, mnw,
 1 Austro-Asiatic, Mon-Khmer, Monic, mnw,
 1 Austro-Asiatic, Mon-Khmer, Monic, mnw,
 3 PAIRS 50.10% 925 BP

 1 Austro-Asiatic, Mon-Khmer, SouthernMonic, cbn,
 1 Austro-Asiatic, Mon-Khmer, SouthernMonic, cbn,
 1 PAIRS 77.03% 270 BP

 2 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Pearic, Western
 2 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Pearic, Eastern
 4 PAIRS 42.51% 1175 BP

 11 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali
 3 Austro-Asiatic, Munda, NorthMunda, Kherwari, Mundari
 33 PAIRS 52.76% 846 BP

1 Austro-Asiatic, Munda, SouthMunda, Kharia-Juang, jun
 1 Austro-Asiatic, Munda, SouthMunda, Kharia-Juang, khr
 1 PAIRS 24.45% 2017 BP

1 Austro-Asiatic, Munda, SouthMunda, KoraputMunda, Gutob-Remo-
 Geta'
 1 Austro-Asiatic, Munda, SouthMunda, KoraputMunda, Sora-Juray-
 Gorum
 1 PAIRS 15.38% 2723 BP

1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, Khao
 3 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, Mal-
 Khmu'
 2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, XinhMul
 1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, Mlabri
 17 PAIRS 17.84% 2497 BP

9 Austro-Asiatic, Mon-Khmer, NorthernMon-
 Khmer, Palaungic, EasternPalaungic
 8 Austro-Asiatic, Mon-Khmer, NorthernMon-
 Khmer, Palaungic, WesternPalaungic
 72 PAIRS 24.01% 2045 BP

1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Chut, pkt
 2 Austro-Asiatic, Mon-Khmer, Viet-Muong, Chut, scb
 2 PAIRS 46.26% 1046 BP

2 Austronesian, Malayo-Polynesian, Malayo-
 Sumbawan, NorthandEast, Bali-Sasak-Sumbawa
 23 Austronesian, Malayo-Polynesian, Malayo-
 Sumbawan, NorthandEast, Malayic
 7 Austronesian, Malayo-Polynesian, Malayo-
 Sumbawan, NorthandEast, Chamic
 221 PAIRS 26.44% 1898 BP

6 Austronesian, Malayo-
 Polynesian, GreaterBarito, East, Central-South
 2 Austronesian, Malayo-Polynesian, GreaterBarito, East, North
 18 Austronesian, Malayo-
 Polynesian, GreaterBarito, East, Malagasy
 156 PAIRS 26.73% 1881 BP

3 Austronesian, Malayo-Polynesian, GreaterBarito, West, North
 5 Austronesian, Malayo-Polynesian, GreaterBarito, West, South
 15 PAIRS 45.03% 1087 BP

28 Austronesian, Malayo-Polynesian, Central-
 Eastern, CentralMalayo-Polynesian, Timor
 34 Austronesian, Malayo-Polynesian, Central-
 Eastern, CentralMalayo-Polynesian, CentralMaluku
 21 Austronesian, Malayo-Polynesian, Central-
 Eastern, CentralMalayo-Polynesian, Bima-Sumba

5 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai

10 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar

4 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Aru

4 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SouthBomberai

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, WestDamar

4562 PAIRS 18.82% 2415 BP

1 Austronesian, Malayo-Polynesian, Javanese, jav,

1 Austronesian, Malayo-Polynesian, Javanese, jav,

1 PAIRS 87.36% 79 BP

5 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah

2 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Dayic

2 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Berawan-LowerBaram

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Bintulu

33 PAIRS 22.08% 2172 BP

1 Austronesian, Malayo-Polynesian, Lampung, abl,

1 Austronesian, Malayo-Polynesian, Lampung, abl,

1 Austronesian, Malayo-Polynesian, Lampung, abl,

1 Austronesian, Malayo-Polynesian, Lampung, abl,

6 PAIRS 60.36% 641 BP

1 Austronesian, Malayo-Polynesian, Lampung, kge,

1 Austronesian, Malayo-Polynesian, Lampung, kge,

1 Austronesian, Malayo-Polynesian, Lampung, kge,

1 Austronesian, Malayo-Polynesian, Lampung, kge,

1 Austronesian, Malayo-Polynesian, Lampung, kge,

1 Austronesian, Malayo-Polynesian, Lampung, kge,

15 PAIRS 69.27% 432 BP

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,

1 Austronesian, Malayo-Polynesian, Lampung, ljp,
1 Austronesian, Malayo-Polynesian, Lampung, ljp,
1 Austronesian, Malayo-Polynesian, Lampung, ljp,
1 Austronesian, Malayo-Polynesian, Lampung, ljp,
91 PAIRS 70.06% 415 BP

36 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine
8 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic
1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, SouthMangyan
1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, UmirayDumaget
18 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo
4 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Subanon
3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Danao
4 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Gorontalo-Mongondow
1949 PAIRS 38.49% 1326 BP

14 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, NorthernCordilleran
27 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran
1 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Ilocano
419 PAIRS 31.72% 1621 BP

1 Austronesian, Malayo-Polynesian, Philippine, Bashiiic, Yami
9 Austronesian, Malayo-Polynesian, Philippine, Bashiiic, Ivatan
9 PAIRS 57.43% 717 BP

1 Austronesian, Malayo-Polynesian, Philippine, CentralLuzon, Pampangan
2 Austronesian, Malayo-Polynesian, Philippine, CentralLuzon, Sambalic
2 PAIRS 40.42% 1252 BP

3 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Dusunic
1 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Ida'an
1 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Paitanic
7 PAIRS 38.32% 1333 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, Melanau-Kajang, Kajang

1 Austronesian, Malayo-Polynesian, North Borneo, Melanau-Kajang, Melanau
1 PAIRS 37.34% 1372 BP

428 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic
43 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, South Halmahera-West New Guinea
18404 PAIRS 7.56% 3803 BP

1 Austronesian, East Formosan, Central, ami,
1 Austronesian, East Formosan, Central, ami,
1 PAIRS 80.46% 204 BP

1 Austronesian, Western Plains, Central Western Plains, ppu,
1 Austronesian, Western Plains, Central Western Plains, ppu,
1 PAIRS 25.30% 1965 BP

21 Austronesian, Malayo-Polynesian, Greater Barito, Sama-Bajaw, Sulu-Borneo
1 Austronesian, Malayo-Polynesian, Greater Barito, Sama-Bajaw, Abaknon
21 PAIRS 34.59% 1489 BP

4 Austronesian, Malayo-Polynesian, Philippine, Bilic, Blaan
3 Austronesian, Malayo-Polynesian, Philippine, Bilic, Tboli
1 Austronesian, Malayo-Polynesian, Philippine, Bilic, tiy
19 PAIRS 31.46% 1633 BP

10 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini
2 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tolitoli
20 PAIRS 35.07% 1468 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Saluan-Banggai
43 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern
43 PAIRS 29.92% 1710 BP

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Southern
5 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern
5 PAIRS 66.95% 484 BP

2 Austronesian, Malayo-Polynesian, Celebic, Kaili-Pamona, Northern
1 Austronesian, Malayo-Polynesian, Celebic, Kaili-Pamona, Southern
2 PAIRS 45.36% 1076 BP

2 Austronesian, Malayo-Polynesian, SouthSulawesi, Bugis, bug
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Bugis, Tamanic
 2 PAIRS 51.47% 884 BP

2 Austronesian, Malayo-Polynesian, SouthSulawesi, Makassar, kjc
 2 Austronesian, Malayo-Polynesian, SouthSulawesi, Makassar, mak
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Makassar, sly
 8 PAIRS 63.78% 558 BP

1 Austronesian, Malayo-Polynesian, SouthSulawesi, Northern, Mamuju
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Northern, Mandar
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Northern, Toraja-Sa'dan
 3 PAIRS 73.36% 345 BP

4 Austronesian, Malayo-Polynesian, Philippine, Minahasan, North
 1 Austronesian, Malayo-Polynesian, Philippine, Minahasan, tnw
 4 PAIRS 61.87% 604 BP

1 Austronesian, Malayo-Polynesian, Enggano, eno,
 1 Austronesian, Malayo-Polynesian, Enggano, eno,
 1 Austronesian, Malayo-Polynesian, Enggano, eno,
 3 PAIRS 41.10% 1226 BP

1 EastBird'sHead-Sentani, Sentani, Demta, dmy,
 1 EastBird'sHead-Sentani, Sentani, Demta, dmy,
 1 EastBird'sHead-Sentani, Sentani, Demta, dmy,
 1 EastBird'sHead-Sentani, Sentani, Demta, dmy,
 6 PAIRS 69.84% 419 BP

1 EastBird'sHead-Sentani, Sentani, SentaniProper, tnm,
 1 EastBird'sHead-Sentani, Sentani, SentaniProper, tnm,
 1 EastBird'sHead-Sentani, Sentani, SentaniProper, tnm,
 1 EastBird'sHead-Sentani, Sentani, SentaniProper, tnm,
 6 PAIRS 54.63% 793 BP

2 Trans-NewGuinea, Eleman, NuclearEleman, Western, xeu
 1 Trans-NewGuinea, Eleman, NuclearEleman, Western, opo
 1 Trans-NewGuinea, Eleman, NuclearEleman, Western, oro
 5 PAIRS 61.32% 617 BP

1 Trans-NewGuinea, Eleman, NuclearEleman, Eastern, tqo
 1 Trans-NewGuinea, Eleman, NuclearEleman, Eastern, uar
 1 PAIRS 56.95% 730 BP

1 Trans-NewGuinea, Eleman, Purari, iar,
 1 Trans-NewGuinea, Eleman, Purari, iar,
 1 PAIRS 69.21% 433 BP

1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
1 Trans-NewGuinea, Gogodala-Suki, Gogodala, ggw,
15 PAIRS 66.45% 495 BP

1 Trans-NewGuinea, SoutheastPapuan, Kwalean, huf,
1 Trans-NewGuinea, SoutheastPapuan, Kwalean, huf,
1 PAIRS 70.23% 411 BP

1 Trans-NewGuinea, SoutheastPapuan, Kwalean, mfw,
1 Trans-NewGuinea, SoutheastPapuan, Kwalean, mfw,
1 Trans-NewGuinea, SoutheastPapuan, Kwalean, mfw,
3 PAIRS 77.74% 256 BP

2 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, kwe
2 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, xau
4 PAIRS 21.27% 2229 BP

1 Tor-Kwerba, GreaterKwerba, Mawes, mgk,
1 Tor-Kwerba, GreaterKwerba, Mawes, mgk,
1 PAIRS 67.82% 464 BP

1 LakesPlain, Tariku, East, tty,
1 LakesPlain, Tariku, East, tty,
1 PAIRS 80.32% 207 BP

1 LakesPlain, Tariku, West, tad,
1 LakesPlain, Tariku, West, tad,
1 LakesPlain, Tariku, West, tad,
1 LakesPlain, Tariku, West, tad,
1 LakesPlain, Tariku, West, tad,
10 PAIRS 59.47% 664 BP

1 LakesPlain, Tariku, West, kiy,
1 LakesPlain, Tariku, West, kiy,
1 LakesPlain, Tariku, West, kiy,
3 PAIRS 68.47% 450 BP

1 LakesPlain, Tariku, West, fau,
1 LakesPlain, Tariku, West, fau,
1 PAIRS 54.67% 792 BP

1 LakesPlain, Tariku, East, afz,
1 LakesPlain, Tariku, East, afz,
1 PAIRS 82.66% 163 BP

1 Ramu-LowerSepik, LowerSepik, Angoram, aog,
1 Ramu-LowerSepik, LowerSepik, Angoram, aog,

1 PAIRS 41.52% 1211 BP

1 Ramu-LowerSepik, LowerSepik, Chambri, can,
1 Ramu-LowerSepik, LowerSepik, Chambri, can,
1 PAIRS 60.56% 637 BP

1 Ramu-LowerSepik, LowerSepik, Nor, xop,
1 Ramu-LowerSepik, LowerSepik, Nor, xop,
1 PAIRS 63.11% 574 BP

1 Ramu-LowerSepik, LowerSepik, Nor, mtf,
1 Ramu-LowerSepik, LowerSepik, Nor, mtf,
1 PAIRS 73.62% 339 BP

1 Ramu-LowerSepik, Ramu, Mikarew, geb,
1 Ramu-LowerSepik, Ramu, Mikarew, geb,
1 Ramu-LowerSepik, Ramu, Mikarew, geb,
3 PAIRS 51.26% 890 BP

1 Trans-NewGuinea, Marind, Boazi, zik,
1 Trans-NewGuinea, Marind, Boazi, zik,
1 PAIRS 80.40% 205 BP

1 Trans-NewGuinea, Marind, Boazi, kvg,
1 Trans-NewGuinea, Marind, Boazi, kvg,
1 Trans-NewGuinea, Marind, Boazi, kvg,
1 Trans-NewGuinea, Marind, Boazi, kvg,
1 Trans-NewGuinea, Marind, Boazi, kvg,
1 Trans-NewGuinea, Marind, Boazi, kvg,
15 PAIRS 55.53% 768 BP

1 Trans-NewGuinea, Marind, NuclearMarind, mrz,
1 Trans-NewGuinea, Marind, NuclearMarind, mrz,
1 Trans-NewGuinea, Marind, NuclearMarind, mrz,
3 PAIRS 38.88% 1311 BP

1 Trans-NewGuinea, Marind, Yaqay, jaq,
1 Trans-NewGuinea, Marind, Yaqay, jaq,
1 PAIRS 75.11% 309 BP

4 Trans-
NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, bzp
5 Trans-
NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj
20 PAIRS 44.57% 1103 BP

1 Trans-NewGuinea, SouthBird' sHead, Inanwatan, szp,
1 Trans-NewGuinea, SouthBird' sHead, Inanwatan, szp,
1 Trans-NewGuinea, SouthBird' sHead, Inanwatan, szp,
1 Trans-NewGuinea, SouthBird' sHead, Inanwatan, szp,
6 PAIRS 69.19% 434 BP

1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Western, kzm
 1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Western, pru
 1 PAIRS 23.12% 2102 BP

 1 South-CentralPapuan, Morehead-UpperMaro, Nambu, ncm,
 1 South-CentralPapuan, Morehead-UpperMaro, Nambu, ncm,
 1 South-CentralPapuan, Morehead-UpperMaro, Nambu, ncm,
 1 South-CentralPapuan, Morehead-UpperMaro, Nambu, ncm,
 6 PAIRS 63.20% 572 BP

 1 South-CentralPapuan, Morehead-UpperMaro, Tonda, pep,
 1 South-CentralPapuan, Morehead-UpperMaro, Tonda, pep,
 1 PAIRS 90.26% 29 BP

 1 Sepik, SepikHill, Sanio, gbe,
 1 Sepik, SepikHill, Sanio, gbe,
 1 PAIRS 43.63% 1136 BP

 1 Tor-Kwerba, Orya-Tor, Orya, ury,
 1 Tor-Kwerba, Orya-Tor, Orya, ury,
 1 Tor-Kwerba, Orya-Tor, Orya, ury,
 3 PAIRS 41.99% 1194 BP

 1 Tor-Kwerba, Orya-Tor, Tor, bkl,
 1 Tor-Kwerba, Orya-Tor, Tor, bkl,
 1 PAIRS 36.33% 1414 BP

 1 Torricelli, Kombio-Arapesh, Kombio, wmo,
 1 Torricelli, Kombio-Arapesh, Kombio, wmo,
 1 PAIRS 67.06% 481 BP

 1 Torricelli, Kombio-Arapesh, Kombio, ymb,
 1 Torricelli, Kombio-Arapesh, Kombio, ymb,
 1 PAIRS 59.84% 655 BP

 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Awyu, ahh
 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Awyu, psa
 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Awyu, aws
 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Awyu, awy
 6 PAIRS 43.09% 1154 BP

 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Dumut, aax
 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Dumut, bwp
 1 Trans-NewGuinea, Ok-Awyu, Awyu-Dumut, Dumut, wms
 3 PAIRS 53.76% 818 BP

 1 Trans-NewGuinea, Binanderean, Binandere, bhg,
 1 Trans-NewGuinea, Binanderean, Binandere, bhg,
 1 PAIRS 46.70% 1032 BP

1 Trans-NewGuinea,Chimbu-Wahgi,Hagen,Kaugel,imo
 1 Trans-NewGuinea,Chimbu-Wahgi,Hagen,Kaugel,ubu
 1 PAIRS 43.20% 1150 BP

1 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,doa,
 1 Trans-NewGuinea,Chimbu-Wahgi,Chimbu,doa,
 1 PAIRS 64.58% 539 BP

1 Trans-NewGuinea,West,Dani,Ngalik,yli
 1 Trans-NewGuinea,West,Dani,Ngalik,wul
 1 PAIRS 59.69% 659 BP

3 Trans-NewGuinea,West,Dani,DaniProper,dni
 1 Trans-NewGuinea,West,Dani,DaniProper,dnw
 1 Trans-NewGuinea,West,Dani,DaniProper,dnt
 1 Trans-NewGuinea,West,Dani,DaniProper,wlw
 12 PAIRS 43.72% 1133 BP

2 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Gadsup-Auyana-Awa,agd
 1 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Gadsup-Auyana-Awa,auy
 2 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Gadsup-Auyana-Awa,awb
 1 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Gadsup-Auyana-Awa,gaj
 13 PAIRS 18.57% 2436 BP

2 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Gahuku-Benabena,aso
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Gahuku-Benabena,bef
 2 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Gahuku-Benabena,gah
 8 PAIRS 24.74% 1999 BP

2 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Tairora,bjr
 1 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Tairora,tbg
 1 Trans-NewGuinea,Kainantu-Goroka,Kainantu,Tairora,waj
 5 PAIRS 26.19% 1912 BP

1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Fore,for
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Fore,gim
 1 PAIRS 14.77% 2784 BP

1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Kamano-Yagaria,kbq
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Kamano-Yagaria,ygr
 1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Kamano-Yagaria,ino
 3 PAIRS 25.11% 1976 BP

1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Siane,snp
1 Trans-NewGuinea,Kainantu-Goroka,Gorokan,Siane,yby
1 PAIRS 33.80% 1524 BP

1 Trans-NewGuinea,Engan,Enga,bir,
1 Trans-NewGuinea,Engan,Enga,bir,
1 PAIRS 37.95% 1348 BP

1 Trans-NewGuinea,Engan,Huli,hui,
1 Trans-NewGuinea,Engan,Huli,hui,
1 PAIRS 74.11% 329 BP

1 Trans-NewGuinea,Engan,Angal-Kewa,kjy,
1 Trans-NewGuinea,Engan,Angal-Kewa,kjy,
1 PAIRS 79.19% 228 BP

1 Trans-NewGuinea,Engan,Enga,leq,
1 Trans-NewGuinea,Engan,Enga,leq,
1 Trans-NewGuinea,Engan,Enga,leq,
3 PAIRS 36.85% 1393 BP

1 Trans-NewGuinea,Finisterre-Huon,Finisterre,Wantoat,awx
1 Trans-NewGuinea,Finisterre-Huon,Finisterre,Wantoat,wnc
1 PAIRS 40.89% 1234 BP

1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,ksr
1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,ded
1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,kgf
1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,kmg
1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,mlh
1 Trans-NewGuinea,Finisterre-Huon,Huon,Eastern,mpp
15 PAIRS 22.85% 2120 BP

1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,bmu
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,kpf
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,mci
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,naf
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,ons
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,spl
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,tim
1 Trans-NewGuinea,Finisterre-Huon,Huon,Western,tbv
28 PAIRS 21.71% 2198 BP

1 Trans-NewGuinea,SoutheastPapuan,Goilalan,Kunimaipa,ttt
1 Trans-NewGuinea,SoutheastPapuan,Goilalan,Kunimaipa,kup
1 PAIRS 6.64% 4000 BP

1 Trans-NewGuinea,SoutheastPapuan,Koiarian,Baraic,aom
1 Trans-NewGuinea,SoutheastPapuan,Koiarian,Baraic,bbb
1 Trans-NewGuinea,SoutheastPapuan,Koiarian,Baraic,mcq
3 PAIRS 25.51% 1952 BP

2 Trans-NewGuinea, SoutheastPapuan, Koiarian, Koiaric, kbk
 1 Trans-NewGuinea, SoutheastPapuan, Koiarian, Koiaric, kqi
 1 Trans-NewGuinea, SoutheastPapuan, Koiarian, Koiaric, kpx
 5 PAIRS 49.10% 956 BP

2 Trans-NewGuinea, Madang, Croisilles, Pihom, Omosan
 1 Trans-NewGuinea, Madang, Croisilles, Pihom, Amaimon
 3 Trans-NewGuinea, Madang, Croisilles, Pihom, Kumilan
 6 Trans-NewGuinea, Madang, Croisilles, Pihom, Numugenan
 5 Trans-NewGuinea, Madang, Croisilles, Pihom, Tiboran
 4 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran
 175 PAIRS 10.87% 3251 BP

1 Trans-NewGuinea, Madang, Croisilles, Gum, aey
 1 Trans-NewGuinea, Madang, Croisilles, Gum, bbd
 1 Trans-NewGuinea, Madang, Croisilles, Gum, gmu
 1 Trans-NewGuinea, Madang, Croisilles, Gum, igo
 1 Trans-NewGuinea, Madang, Croisilles, Gum, pnr
 1 Trans-NewGuinea, Madang, Croisilles, Gum, snr
 15 PAIRS 40.80% 1238 BP

2 Trans-NewGuinea, Madang, SouthAdelbertRange, Wanang, Atan
 2 Trans-NewGuinea, Madang, SouthAdelbertRange, Wanang, Emuan
 1 Trans-NewGuinea, Madang, SouthAdelbertRange, Wanang, Paynamar
 8 PAIRS 4.64% 4545 BP

1 Trans-NewGuinea, Madang, RaiCoast, Kabenau, awm
 1 Trans-NewGuinea, Madang, RaiCoast, Kabenau, klm
 1 Trans-NewGuinea, Madang, RaiCoast, Kabenau, lei
 1 Trans-NewGuinea, Madang, RaiCoast, Kabenau, pup
 1 Trans-NewGuinea, Madang, RaiCoast, Kabenau, ssd
 10 PAIRS 15.88% 2674 BP

1 Trans-NewGuinea, Madang, RaiCoast, Evapia, asd
 1 Trans-NewGuinea, Madang, RaiCoast, Evapia, wtf
 1 Trans-NewGuinea, Madang, RaiCoast, Evapia, xes
 1 Trans-NewGuinea, Madang, RaiCoast, Evapia, ssj
 1 Trans-NewGuinea, Madang, RaiCoast, Evapia, snz
 10 PAIRS 25.53% 1951 BP

1 Trans-NewGuinea, Madang, Croisilles, Hanseman, bpi
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, bmx
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, gap
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, gaw
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, gyb
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, fad
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, mqe
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, mcz
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, mqv
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, mqw
 1 Trans-NewGuinea, Madang, Croisilles, Hanseman, nbk

1 Trans-NewGuinea,Madang,Croisilles,Hanseman,rpt
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,rmp
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,swm
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,sra
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,xsp
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,utu
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,wmc
 1 Trans-NewGuinea,Madang,Croisilles,Hanseman,ydk
 171 PAIRS 28.97% 1759 BP

1 Trans-NewGuinea,Madang,Croisilles,Kokon,bmh
 1 Trans-NewGuinea,Madang,Croisilles,Kokon,bbr
 1 Trans-NewGuinea,Madang,Croisilles,Kokon,mtc
 3 PAIRS 22.09% 2172 BP

1 Trans-NewGuinea,Madang,RaiCoast,Biyom-Tauya,bpm
 1 Trans-NewGuinea,Madang,RaiCoast,Biyom-Tauya,tya
 1 PAIRS 24.37% 2022 BP

1 Trans-NewGuinea,Madang,RaiCoast,Mindjim,boj
 1 Trans-NewGuinea,Madang,RaiCoast,Mindjim,bpu
 1 Trans-NewGuinea,Madang,RaiCoast,Mindjim,mdc
 1 Trans-NewGuinea,Madang,RaiCoast,Mindjim,snx
 6 PAIRS 28.96% 1759 BP

1 Trans-NewGuinea,Madang,Croisilles,Isumrud,buq
 1 Trans-NewGuinea,Madang,Croisilles,Isumrud,dmc
 1 Trans-NewGuinea,Madang,Croisilles,Isumrud,mkr
 3 PAIRS 14.84% 2777 BP

1 Trans-NewGuinea,Madang,RaiCoast,Peka,dnr
 1 Trans-NewGuinea,Madang,RaiCoast,Peka,six
 1 Trans-NewGuinea,Madang,RaiCoast,Peka,urg
 1 Trans-NewGuinea,Madang,RaiCoast,Peka,urw
 6 PAIRS 27.32% 1848 BP

1 Trans-NewGuinea,Madang,RaiCoast,Nuru,duk
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,eri
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,jil
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,kop
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,rea
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,usu
 1 Trans-NewGuinea,Madang,RaiCoast,Nuru,ynl
 21 PAIRS 17.06% 2565 BP

1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Faita
 3 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Pomoikan
 2 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Sikan

1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Osum
 1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Wadaginam
 24 PAIRS 15.33% 2728 BP

 1 Trans-NewGuinea,Madang,RaiCoast,Yaganon,ggl
 1 Trans-NewGuinea,Madang,RaiCoast,Yaganon,spd
 1 Trans-NewGuinea,Madang,RaiCoast,Yaganon,ybo
 3 PAIRS 38.39% 1330 BP

 1 Trans-NewGuinea,Madang,SouthAdelbertRange,Kowan,koz
 1 Trans-NewGuinea,Madang,SouthAdelbertRange,Kowan,wsk
 1 PAIRS 18.02% 2481 BP

 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,kqc,
 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,kqc,
 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,kqc,
 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,kqc,
 6 PAIRS 71.64% 381 BP

 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,mds,
 1 Trans-NewGuinea,SoutheastPapuan,Manubaran,mds,
 1 PAIRS 55.89% 759 BP

 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,fai
 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,bhl
 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,mpt
 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,tlf
 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,tif
 1 Trans-NewGuinea,Ok-Awyu,Ok,Mountain,sug
 15 PAIRS 25.14% 1975 BP

 2 Trans-NewGuinea,Ok-Awyu,Ok,Lowland,kts
 1 Trans-NewGuinea,Ok-Awyu,Ok,Lowland,kti
 1 Trans-NewGuinea,Ok-Awyu,Ok,Lowland,nxr
 2 Trans-NewGuinea,Ok-Awyu,Ok,Lowland,yon
 13 PAIRS 49.43% 945 BP

 20 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-
 Pantar,Alor
 17 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-
 Pantar,Pantar
 340 PAIRS 16.38% 2626 BP

 1 Trans-NewGuinea,West,EastTimor,Fataluku-Oirata,ddg
 1 Trans-NewGuinea,West,EastTimor,Fataluku-Oirata,oia
 1 PAIRS 34.25% 1504 BP

 1 Trans-NewGuinea,Turama-Kikorian,Turama-Omatian,meb,
 1 Trans-NewGuinea,Turama-Kikorian,Turama-Omatian,meb,
 1 PAIRS 41.52% 1211 BP

1 Trans-NewGuinea,West,WestBomberai,WestBomberaiProper,ihp
1 Trans-NewGuinea,West,WestBomberai,WestBomberaiProper,bdw
1 PAIRS 34.49% 1493 BP

1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
1 WestPapuan,NorthHalmahera,WestMakian,mqs,
28 PAIRS 89.23% 47 BP

1 WestPapuan,NorthHalmahera,Galela-Loloda,loa,
1 WestPapuan,NorthHalmahera,Galela-Loloda,loa,
1 PAIRS 63.30% 569 BP

1 WestPapuan,NorthHalmahera,Galela-Loloda,mqo,
1 WestPapuan,NorthHalmahera,Galela-Loloda,mqo,
1 PAIRS 61.38% 616 BP

2 Australian,Daly,Bringen-Wagaydy,Wagaydy,wdj
1 Australian,Daly,Bringen-Wagaydy,Wagaydy,amy
1 Australian,Daly,Bringen-Wagaydy,Wagaydy,zma
1 Australian,Daly,Bringen-Wagaydy,Wagaydy,zmr
9 PAIRS 35.53% 1448 BP

1 Australian,Daly,Malagmalag,DalyProper,xmu
2 Australian,Daly,Malagmalag,DalyProper,zml
2 PAIRS 35.73% 1440 BP

1 Australian,Gunwingguan,Gunwinggic,gup,
1 Australian,Gunwingguan,Gunwinggic,gup,
1 Australian,Gunwingguan,Gunwinggic,gup,
1 Australian,Gunwingguan,Gunwinggic,gup,
1 Australian,Gunwingguan,Gunwinggic,gup,
10 PAIRS 53.91% 814 BP

1 Australian,Gunwingguan,Maran,Mara,mec
1 Australian,Gunwingguan,Maran,Mara,wnd
1 PAIRS 27.56% 1835 BP

1 Australian,Daly,Malagmalag,MalagmalagProper,mpb
1 Australian,Daly,Malagmalag,MalagmalagProper,woa
1 PAIRS 43.51% 1140 BP

1 Australian,Pama-Nyungan,South-West,Yura,adt
1 Australian,Pama-Nyungan,South-West,Yura,nnr
1 PAIRS 19.50% 2361 BP

3 Australian,Pama-Nyungan,Paman,NorthernPama,amz
 2 Australian,Pama-Nyungan,Paman,NorthernPama,lnj
 3 Australian,Pama-Nyungan,Paman,NorthernPama,urf
 21 PAIRS 29.84% 1714 BP

 1 Australian,Pama-Nyungan,Karnic,Palku,ard
 1 Australian,Pama-Nyungan,Karnic,Palku,pit
 1 PAIRS 26.62% 1888 BP

 1 Australian,Pama-Nyungan,Arandic,aer,
 1 Australian,Pama-Nyungan,Arandic,aer,
 1 PAIRS 91.01% 16 BP

 1 Australian,Pama-Nyungan,Maric,bzr,
 1 Australian,Pama-Nyungan,Maric,bzr,
 1 PAIRS 71.93% 375 BP

 1 Australian,Pama-Nyungan,Kulinic,Kulin,cx0
 1 Australian,Pama-Nyungan,Kulinic,Kulin,wx0
 1 Australian,Pama-Nyungan,Kulinic,Kulin,wr0
 3 PAIRS 17.07% 2563 BP

 1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,dax
 2 Australian,Pama-Nyungan,Yuulngu,Dhuwal,duj
 3 Australian,Pama-Nyungan,Yuulngu,Dhuwal,guf
 1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,gnn
 1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,rit
 24 PAIRS 45.18% 1082 BP

 1 Australian,Pama-Nyungan,Karnic,Karna,dif
 1 Australian,Pama-Nyungan,Karnic,Karna,ynd
 1 PAIRS 24.96% 1985 BP

 1 Australian,Pama-Nyungan,South-West,Ngumbin,ddj
 1 Australian,Pama-Nyungan,South-West,Ngumbin,gue
 1 Australian,Pama-Nyungan,South-West,Ngumbin,wmt
 3 PAIRS 27.43% 1842 BP

 1 Australian,Pama-Nyungan,Yuulngu,Djinang,dji
 1 Australian,Pama-Nyungan,Yuulngu,Djinang,djb
 1 PAIRS 32.42% 1588 BP

 1 Australian,Pama-Nyungan,Waka-Kabic,Miyan,wkw
 1 Australian,Pama-Nyungan,Waka-Kabic,Miyan,wlu
 1 PAIRS 39.51% 1286 BP

 5 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg
 1 Australian,Pama-Nyungan,Yuulngu,Dhangu,jay
 5 PAIRS 34.58% 1490 BP

 1 Australian,Pama-Nyungan,Bandjalangic,bdy,
 1 Australian,Pama-Nyungan,Bandjalangic,bdy,

1 PAIRS 58.46% 690 BP

 1 Australian,Pama-Nyungan,Paman,MiddlePama,uwa
 1 Australian,Pama-Nyungan,Paman,MiddlePama,wim
 1 PAIRS 20.66% 2273 BP

 2 Australian,Pama-Nyungan,Paman,Lamalamic,lby
 1 Australian,Pama-Nyungan,Paman,Lamalamic,umg
 2 PAIRS 15.52% 2709 BP

 3 Australian,Pama-Nyungan,South-West,Wati,mpj
 1 Australian,Pama-Nyungan,South-West,Wati,ntj
 1 Australian,Pama-Nyungan,South-West,Wati,piu
 1 Australian,Pama-Nyungan,South-West,Wati,kdd
 12 PAIRS 29.64% 1724 BP

 1 Australian,Pama-Nyungan,South-West,CoastalNgayarda,vma
 1 Australian,Pama-Nyungan,South-West,CoastalNgayarda,nrl
 1 Australian,Pama-Nyungan,South-West,CoastalNgayarda,yij
 3 PAIRS 27.36% 1846 BP

 1 Australian,Pama-Nyungan,Paman,Mayabic,xmy
 3 Australian,Pama-Nyungan,Paman,Mayabic,mnt
 1 Australian,Pama-Nyungan,Paman,Mayabic,nxn
 7 PAIRS 40.15% 1262 BP

 1 Australian,Daly,Murrinh-Patha,nam,
 1 Australian,Daly,Murrinh-Patha,nam,
 1 PAIRS 79.62% 220 BP

 1 Australian,Daly,Bringen-Wagaydy,Bringen,zmm
 1 Australian,Daly,Bringen-Wagaydy,Bringen,zmt
 1 Australian,Daly,Bringen-Wagaydy,Bringen,zmd
 1 Australian,Daly,Bringen-Wagaydy,Bringen,mfr
 1 Australian,Daly,Bringen-Wagaydy,Bringen,zmj
 10 PAIRS 70.84% 398 BP

 2 Eskimo-Aleut,Eskimo,Yupik,Siberian,ess
 1 Eskimo-Aleut,Eskimo,Yupik,Siberian,ysr
 2 PAIRS 31.41% 1636 BP

 7 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Canadian
 7 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Apachean
 5 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,PacificCoast
 1 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Tanana-UpperKuskokwim
 138 PAIRS 23.74% 2062 BP

 1 Algic,Algonquian,Central,Ojibwa,alq

2 Algic,Algonquian,Central,Ojibwa,ciw
 1 Algic,Algonquian,Central,Ojibwa,ojs
 1 Algic,Algonquian,Central,Ojibwa,ojg
 9 PAIRS 48.34% 979 BP

1 Algic,Algonquian,Central,Cree-Montagnais-Naskapi,atj
 1 Algic,Algonquian,Central,Cree-Montagnais-Naskapi,moe
 1 Algic,Algonquian,Central,Cree-Montagnais-Naskapi,nsk
 3 PAIRS 26.75% 1880 BP

1 Algic,Algonquian,Central,mia,
 1 Algic,Algonquian,Central,mia,
 1 PAIRS 18.56% 2436 BP

2 Iroquoian,NorthernIroquoian,FiveNations,Seneca-Onondaga,Seneca-Cayuga
 1 Iroquoian,NorthernIroquoian,FiveNations,Seneca-Onondaga,Onondaga
 2 PAIRS 42.58% 1173 BP

1 Iroquoian,NorthernIroquoian,FiveNations,Mohawk-Oneida,moh
 1 Iroquoian,NorthernIroquoian,FiveNations,Mohawk-Oneida,one
 1 PAIRS 37.21% 1378 BP

1 Caddoan,Northern,Pawnee-Kitsai,Pawnee,ari
 1 Caddoan,Northern,Pawnee-Kitsai,Pawnee,paw
 1 PAIRS 28.03% 1809 BP

3 Siouan,SiouanProper,Central,MississippiValley,Dakota
 1 Siouan,SiouanProper,Central,MississippiValley,Chiwere
 4 Siouan,SiouanProper,Central,MississippiValley,Dhegiha
 1 Siouan,SiouanProper,Central,MississippiValley,Winnebago
 27 PAIRS 28.23% 1798 BP

1 Siouan,SiouanProper,Southeastern,Biloxi-Ofo,bll
 1 Siouan,SiouanProper,Southeastern,Biloxi-Ofo,ofa
 1 PAIRS 27.48% 1839 BP

1 KiowaTanoan,Tewa-Tiwa,Tewa,tew,
 1 KiowaTanoan,Tewa-Tiwa,Tewa,tew,
 1 PAIRS 71.50% 384 BP

57 Uto-Aztecan,SouthernUto-Aztecan,Aztecan,GeneralAztec,Aztec
 1 Uto-Aztecan,SouthernUto-Aztecan,Aztecan,GeneralAztec,Pipil
 57 PAIRS 33.88% 1520 BP

4 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Cahita,yaq
 1 Uto-Aztecan,SouthernUto-Aztecan,Sonoran,Cahita,opt
 4 PAIRS 35.26% 1460 BP

1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Corachol, crn
 1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Corachol, hch
 1 PAIRS 41.88% 1198 BP

1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Central, com
 1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Central, shh
 1 PAIRS 43.26% 1148 BP

1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Southern, xaw
 3 Uto-Aztecan, NorthernUto-Aztecan, Numic, Southern, ute
 3 PAIRS 32.72% 1573 BP

1 Uto-Aztecan, NorthernUto-Aztecan, Takic, Cupan, Cahuilla-
 Cupeno
 1 Uto-Aztecan, NorthernUto-Aztecan, Takic, Cupan, Luiseno
 1 PAIRS 32.42% 1587 BP

1 Uto-Aztecan, SouthernUto-
 Aztecan, Sonoran, Tarahumaran, Tarahumara
 2 Uto-Aztecan, SouthernUto-
 Aztecan, Sonoran, Tarahumaran, Guarijio
 2 PAIRS 41.46% 1213 BP

1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Tepiman, pia
 1 Uto-Aztecan, SouthernUto-
 Aztecan, Sonoran, Tepiman, SouthernTepahuan
 1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Tepiman, ood
 3 PAIRS 50.95% 899 BP

1 Salishan, CentralSalish, Halkomelem, hur,
 1 Salishan, CentralSalish, Halkomelem, hur,
 1 PAIRS 85.12% 118 BP

1 Salishan, CentralSalish, Straits, str,
 1 Salishan, CentralSalish, Straits, str,
 1 Salishan, CentralSalish, Straits, str,
 3 PAIRS 57.17% 724 BP

4 Penutian, Yok-Utian, Utian, Miwokan, Eastern
 3 Penutian, Yok-Utian, Utian, Miwokan, Western
 12 PAIRS 22.54% 2141 BP

1 Penutian, Yok-Utian, Yokuts, yok,
 1 Penutian, Yok-Utian, Yokuts, yok,
 1 PAIRS 53.63% 821 BP

2 Hokan, Northern, Karok-Shasta, Shasta-
 Palaihnihan, Palaihnihan
 2 Hokan, Northern, Karok-Shasta, Shasta-Palaihnihan, Shastan
 4 PAIRS 1.94% 5876 BP

5 Hokan, Northern, Pomo, RussianRiverandEastern, RussianRiver

1 Hoka, Northern, Pomo, Russian River and Eastern, Eastern
 5 PAIRS 50.49% 913 BP

1 Hoka, Esselen-Yuman, Yuman, Delta-Californian, coc
 2 Hoka, Esselen-Yuman, Yuman, Delta-Californian, dih
 2 PAIRS 40.60% 1245 BP

1 Hoka, Esselen-Yuman, Yuman, River Yuman, mrc
 1 Hoka, Esselen-Yuman, Yuman, River Yuman, mov
 1 Hoka, Esselen-Yuman, Yuman, River Yuman, yum
 3 PAIRS 64.78% 534 BP

1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, mio
 1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, xta
 1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, mih
 1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, mil
 1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, mjc
 1 Oto-Manguan, Mixtecan, Mixtec-Cuicatec, Mixtec, mpm
 15 PAIRS 35.79% 1437 BP

1 Oto-Manguan, Otopamean, Matlatzincan, mat,
 1 Oto-Manguan, Otopamean, Matlatzincan, mat,
 1 PAIRS 69.51% 427 BP

1 Oto-Manguan, Otopamean, Otomian, Otomi, ote
 1 Oto-Manguan, Otopamean, Otomian, Otomi, otq
 1 Oto-Manguan, Otopamean, Otomian, Otomi, ots
 3 PAIRS 56.52% 741 BP

1 Oto-Manguan, Popolocan, Mazatecan, mau,
 1 Oto-Manguan, Popolocan, Mazatecan, mau,
 1 PAIRS 65.12% 526 BP

1 Oto-Manguan, Popolocan, Mazatecan, maq,
 1 Oto-Manguan, Popolocan, Mazatecan, maq,
 1 PAIRS 56.33% 747 BP

1 Oto-Manguan, Popolocan, Mazatecan, vmz,
 1 Oto-Manguan, Popolocan, Mazatecan, vmz,
 1 PAIRS 40.12% 1263 BP

1 Oto-Manguan, Popolocan, Chocho-Popolocan, Popolocan, pbf
 1 Oto-Manguan, Popolocan, Chocho-Popolocan, Popolocan, pbe
 1 Oto-Manguan, Popolocan, Chocho-Popolocan, Popolocan, poe
 3 PAIRS 28.52% 1783 BP

1 Mixe-Zoque, Mixe, Western Mixe, mxp,
 1 Mixe-Zoque, Mixe, Western Mixe, mxp,
 1 PAIRS 68.70% 445 BP

1 Mixe-Zoque, Zoque, Oaxaca Zoque, zoh,
 1 Mixe-Zoque, Zoque, Oaxaca Zoque, zoh,

1 PAIRS 67.34% 475 BP

1 Mayan, Kanjobalan-Chujean, Kanjobalan, Kanjobal-Jacaltepec, knj
2 Mayan, Kanjobalan-Chujean, Kanjobalan, Kanjobal-Jacaltepec, jai
1 Mayan, Kanjobalan-Chujean, Kanjobalan, Kanjobal-Jacaltepec, kjb
5 PAIRS 62.97% 577 BP

2 Mayan, Quichean-Mamean, GreaterMamean, Ixilan, agu
1 Mayan, Quichean-Mamean, GreaterMamean, Ixilan, ixj
1 Mayan, Quichean-Mamean, GreaterMamean, Ixilan, ixi
5 PAIRS 50.91% 901 BP

6 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-
Achi
4 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel
3 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Tzutujil
54 PAIRS 63.53% 564 BP

1 Mayan, Cholan-Tzeltalan, Cholan, Chol-Chontal, cti
1 Mayan, Cholan-Tzeltalan, Cholan, Chol-Chontal, ctu
1 Mayan, Cholan-Tzeltalan, Cholan, Chol-Chontal, chf
3 PAIRS 61.18% 621 BP

1 Mayan, Kanjobalan-Chujean, Chujean, cnm,
1 Mayan, Kanjobalan-Chujean, Chujean, cnm,
1 PAIRS 71.16% 391 BP

7 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms
10 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam
3 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mtz
2 Mayan, Quichean-Mamean, GreaterMamean, Mamean, ttc
3 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mvj
227 PAIRS 57.16% 724 BP

1 Mayan, Yucatecan, Mopan-Itza, mop,
1 Mayan, Yucatecan, Mopan-Itza, mop,
1 PAIRS 89.94% 35 BP

2 Mayan, Quichean-Mamean, GreaterQuichean, Pocom, poa
1 Mayan, Quichean-Mamean, GreaterQuichean, Pocom, pob
1 Mayan, Quichean-Mamean, GreaterQuichean, Pocom, poc
5 PAIRS 69.30% 431 BP

1 Choco, Embera, Northern, emp,
1 Choco, Embera, Northern, emp,
1 PAIRS 42.56% 1173 BP

1 Choco, Embera, Southern, sja,
1 Choco, Embera, Southern, sja,
1 PAIRS 75.89% 293 BP

1 Tucanoan, EasternTucanoan, Central, Southern, bsn

1 Tucanoan,EasternTucanoan,Central,Southern,myy
1 PAIRS 44.54% 1104 BP

2 Tucanoan,EasternTucanoan,Central,Bara,bao
1 Tucanoan,EasternTucanoan,Central,Bara,tue
1 Tucanoan,EasternTucanoan,Central,Bara,yui
5 PAIRS 67.19% 478 BP

1 Tucanoan,EasternTucanoan,Central,Tatuyo,cbc
1 Tucanoan,EasternTucanoan,Central,Tatuyo,tav
1 PAIRS 77.95% 252 BP

1 Tucanoan,EasternTucanoan,Central,Desano,des
1 Tucanoan,EasternTucanoan,Central,Desano,sri
1 PAIRS 75.63% 298 BP

1 Tucanoan,WesternTucanoan,Northern,Siona-Secoya,sey
1 Tucanoan,WesternTucanoan,Northern,Siona-Secoya,snn
1 PAIRS 47.60% 1003 BP

1 Witotoan,Witoto,WitotoProper,Minica-Murui,hto
1 Witotoan,Witoto,WitotoProper,Minica-Murui,huu
1 PAIRS 67.16% 479 BP

1 Panoan,South-Central,Yaminahua-Sharanahua,ywn,
1 Panoan,South-Central,Yaminahua-Sharanahua,ywn,
1 PAIRS 55.06% 781 BP

1 Quechuan,QuechuaII,B,qvi,
1 Quechuan,QuechuaII,B,qvi,
1 Quechuan,QuechuaII,B,qvi,
1 Quechuan,QuechuaII,B,qvi,
6 PAIRS 68.70% 445 BP

1 Quechuan,QuechuaII,B,qxr,
1 Quechuan,QuechuaII,B,qxr,
1 PAIRS 87.73% 72 BP

1 Quechuan,QuechuaII,B,qvz,
1 Quechuan,QuechuaII,B,qvz,
1 PAIRS 83.34% 150 BP

1 Quechuan,QuechuaII,B,qug,
1 Quechuan,QuechuaII,B,qug,
1 Quechuan,QuechuaII,B,qug,
1 Quechuan,QuechuaII,B,qug,
1 Quechuan,QuechuaII,B,qug,
10 PAIRS 83.01% 157 BP

1 Quechuan,QuechuaII,B,quw,
1 Quechuan,QuechuaII,B,quw,
1 PAIRS 89.49% 42 BP

1 Arawakan, Maipuran, NorthernMaipuran, Inland, aca
1 Arawakan, Maipuran, NorthernMaipuran, Inland, bvv
1 Arawakan, Maipuran, NorthernMaipuran, Inland, bwi
1 Arawakan, Maipuran, NorthernMaipuran, Inland, bae
1 Arawakan, Maipuran, NorthernMaipuran, Inland, cbb
1 Arawakan, Maipuran, NorthernMaipuran, Inland, kpc
1 Arawakan, Maipuran, NorthernMaipuran, Inland,
1 Arawakan, Maipuran, NorthernMaipuran, Inland, xp0
1 Arawakan, Maipuran, NorthernMaipuran, Inland, pio
1 Arawakan, Maipuran, NorthernMaipuran, Inland, rgr
2 Arawakan, Maipuran, NorthernMaipuran, Inland, tae
1 Arawakan, Maipuran, NorthernMaipuran, Inland, gae
1 Arawakan, Maipuran, NorthernMaipuran, Inland, yvt
1 Arawakan, Maipuran, NorthernMaipuran, Inland, ycn
104 PAIRS 16.75% 2593 BP

1 Arawakan, Maipuran, WesternMaipuran, ame,
1 Arawakan, Maipuran, WesternMaipuran, ame,
1 PAIRS 54.78% 789 BP

1 Arawakan, Maipuran, SouthernMaipuran, Purus, apu
1 Arawakan, Maipuran, SouthernMaipuran, Purus, inp
1 Arawakan, Maipuran, SouthernMaipuran, Purus, crb
1 Arawakan, Maipuran, SouthernMaipuran, Purus, cuj
1 Arawakan, Maipuran, SouthernMaipuran, Purus, mpd
1 Arawakan, Maipuran, SouthernMaipuran, Purus, pib
15 PAIRS 21.40% 2219 BP

1 Arawakan, Maipuran, SouthernMaipuran, Pre-Andine, cpu
1 Arawakan, Maipuran, SouthernMaipuran, Pre-Andine, prq
1 Arawakan, Maipuran, SouthernMaipuran, Pre-Andine, cot
1 Arawakan, Maipuran, SouthernMaipuran, Pre-Andine, mcb
1 Arawakan, Maipuran, SouthernMaipuran, Pre-Andine, not
10 PAIRS 33.91% 1519 BP

1 Arawakan, Maipuran, NorthernMaipuran, Wapishanan, ba0
1 Arawakan, Maipuran, NorthernMaipuran, Wapishanan, wap
1 PAIRS 11.27% 3196 BP

1 Arawakan, Maipuran, SouthernMaipuran, Bolivia-Parana, brg
1 Arawakan, Maipuran, SouthernMaipuran, Bolivia-Parana, ign
1 Arawakan, Maipuran, SouthernMaipuran, Bolivia-Parana, gqn
1 Arawakan, Maipuran, SouthernMaipuran, Bolivia-Parana, ter
1 Arawakan, Maipuran, SouthernMaipuran, Bolivia-Parana, trn
10 PAIRS 30.63% 1674 BP

1 Arawakan, Maipuran, NorthernMaipuran, Caribbean, cab
1 Arawakan, Maipuran, NorthernMaipuran, Caribbean, arw
1 Arawakan, Maipuran, NorthernMaipuran, Caribbean, pbq
1 Arawakan, Maipuran, NorthernMaipuran, Caribbean, tnq
1 Arawakan, Maipuran, NorthernMaipuran, Caribbean, guc

10 PAIRS 9.12% 3518 BP

2 Carib,Northern,East-WestGuiana,Macushi-Kapon,Kapon
1 Carib,Northern,East-WestGuiana,Macushi-Kapon,Macushi
2 PAIRS 42.51% 1175 BP

1 Carib,Northern,East-WestGuiana,Wayana-Trio,apy
1 Carib,Northern,East-WestGuiana,Wayana-Trio,tri
1 Carib,Northern,East-WestGuiana,Wayana-Trio,way
3 PAIRS 45.11% 1085 BP

1 Tupi,Tupi-Guarani,SubgroupVI,pah,
1 Tupi,Tupi-Guarani,SubgroupVI,pah,
1 PAIRS 42.97% 1159 BP

4 Macro-Ge,Ge-Kaingang,Ge,Northwest,Timbira
1 Macro-Ge,Ge-Kaingang,Ge,Northwest,Apinaye
1 Macro-Ge,Ge-Kaingang,Ge,Northwest,Kayapo
1 Macro-Ge,Ge-Kaingang,Ge,Northwest,Kreen-Akarore
1 Macro-Ge,Ge-Kaingang,Ge,Northwest,Suya
22 PAIRS 32.66% 1576 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 5
S0 = 92%, R = .72

1 Khoisan,SouthernAfrica,Central,Tshu-Khwe,Southwest,gwj
1 Khoisan,SouthernAfrica,Central,Tshu-Khwe,Southwest,nhr
1 PAIRS 35.47% 1451 BP

1 Khoisan,SouthernAfrica,Central,Tshu-Khwe,Northwest,gнк
1 Khoisan,SouthernAfrica,Central,Tshu-Khwe,Northwest,xuu
1 PAIRS 21.67% 2200 BP

1 Khoisan,SouthernAfrica,Southern,Hua,nmn,
1 Khoisan,SouthernAfrica,Southern,Hua,nmn,
1 Khoisan,SouthernAfrica,Southern,Hua,nmn,
3 PAIRS 45.86% 1060 BP

19 Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-Ubangi,Adamawa
31 Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-Ubangi,Ubangi
589 PAIRS 2.89% 5265 BP

248 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-Congo,Bantoid,Southern
1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-Congo,Bantoid,Unclassified
9 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-Congo,Bantoid,Northern
2489 PAIRS 3.76% 4867 BP

27 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, Bendi
 27 PAIRS 9.20% 3504 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid, Akokoid
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid, Ayere-Ahan
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid, Yoruboid
 5 PAIRS 19.10% 2393 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dkl,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dkl,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Dogon, dkl,
 3 PAIRS 47.13% 1018 BP

2 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Ben-Gban
 3 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Wan-Mwan
 6 PAIRS 22.75% 2127 BP

1 Niger-Congo, Mande, Eastern, Eastern, Busa, bus
 1 Niger-Congo, Mande, Eastern, Eastern, Busa, bqc
 2 Niger-Congo, Mande, Eastern, Eastern, Busa, bqp
 1 Niger-Congo, Mande, Eastern, Eastern, Busa, tye
 1 Niger-Congo, Mande, Eastern, Eastern, Busa, sho
 14 PAIRS 54.18% 806 BP

2 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Guro-Yaoure
 3 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Tura-Dan-Mano
 6 PAIRS 30.77% 1667 BP

9 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central
 7 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta
 5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern
 6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern
 269 PAIRS 22.69% 2130 BP

19 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Tiefo
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Teen
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Senufo
 102 PAIRS 4.00% 4771 BP

5 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol
 1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Rere
 5 PAIRS 42.32% 1182 BP

1 Niger-Congo, Kordofanian, Heiban, West-Central, Western, mor
 1 Niger-Congo, Kordofanian, Heiban, West-Central, Western, tic
 1 PAIRS 40.65% 1243 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Igbo
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Ekpeye
 4 PAIRS 21.51% 2212 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Eastern, Bakwe
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Eastern, Bete
 1 PAIRS 19.54% 2358 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Western, Klao
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Western, Grebo
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kru, Western, Wee
 3 PAIRS 30.55% 1678 BP

24 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Agneby
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Ga-Dangme
 74 PAIRS 5.49% 4292 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Kposo-Ahlo-Bowili
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Kebu-Animere
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Gbe
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Avatime-Nyangbo
 23 PAIRS 7.84% 3749 BP

2 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Balant-Ganja
 2 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Jola
 4 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel
 20 PAIRS 5.83% 4200 BP

3 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fulani-Wolof
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Serer
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fula-Wolof
 7 PAIRS 6.83% 3959 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin, cae
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin, ndv
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin, snf
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin, fap
 1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Cangin, sav
 10 PAIRS 45.65% 1067 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Ebira-Gade
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Nupe-Gbagyi
 4 PAIRS 11.90% 3112 BP

24 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Ayu
 4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic
 5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southeastern
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southern
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Northern
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Tarokoid
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Alumic
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, tdv
 691 PAIRS 10.37% 3322 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Jukunoid, Central
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Jukunoid, Yukuben-Kuteb
 1 PAIRS 9.24% 3498 BP

4 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne
 1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Gola
 4 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi
 24 PAIRS 3.18% 5124 BP

1 Niger-Congo, Kordofanian, Talodi, TalodiProper, Ngile-Dengebu, dec
 1 Niger-Congo, Kordofanian, Talodi, TalodiProper, Ngile-Dengebu, jle

15 PAIRS 52.47% 855 BP

12 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern
 5 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Southern
 60 PAIRS 24.59% 2008 BP

1 Nilo-Saharan, CentralSudanic, East, Mangbetu, mdj,
 1 Nilo-Saharan, CentralSudanic, East, Mangbetu, mdj,
 1 PAIRS 48.20% 984 BP

1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, kbo
 1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, log
 1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, lgg
 2 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, avu
 9 PAIRS 56.74% 736 BP

3 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern, mhi
 1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern, lul
 3 PAIRS 51.06% 896 BP

4 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, bfa
 1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, keo
 1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, mqu
 9 PAIRS 69.87% 419 BP

6 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
 Teso, Lotuxo-Maa
 5 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
 Teso, Teso-Turkana
 30 PAIRS 16.48% 2617 BP

5 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc
 1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, omt
 5 PAIRS 17.73% 2506 BP

3 Nilo-
 Saharan, EasternSudanic, Nilotic, Southern, Kalenjin, Nandi-Markweta
 1 Nilo-
 Saharan, EasternSudanic, Nilotic, Southern, Kalenjin, Pokot
 1 Nilo-
 Saharan, EasternSudanic, Nilotic, Southern, Kalenjin, Okiek
 7 PAIRS 30.58% 1677 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Dinka-
 Nuer, Nuer
 1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Dinka-
 Nuer, Dinka
 1 PAIRS 19.62% 2352 BP

1 Nilo-
 Saharan, EasternSudanic, Eastern, Nubian, Central, Dongolawi
 1 Nilo-Saharan, EasternSudanic, Eastern, Nubian, Central, Hill
 1 PAIRS 13.27% 2947 BP

3 Nilo-
 Saharan, EasternSudanic, Eastern, Surmic, South, Southwest
 4 Nilo-
 Saharan, EasternSudanic, Eastern, Surmic, South, Southeast
 12 PAIRS 13.75% 2893 BP

 1 Afro-Asiatic, Berber, Tamasheq, Northern, thv,
 1 Afro-Asiatic, Berber, Tamasheq, Northern, thv,
 1 PAIRS 91.67% 5 BP

 1 Afro-Asiatic, Berber, Northern, Zenati, East, gha
 2 Afro-Asiatic, Berber, Northern, Zenati, East, jbn
 2 PAIRS 32.28% 1594 BP

 2 Afro-Asiatic, Berber, Northern, Zenati, Mzab-Wargla, oua
 1 Afro-Asiatic, Berber, Northern, Zenati, Mzab-Wargla, mzb
 2 PAIRS 74.02% 331 BP

 1 Afro-Asiatic, Berber, Northern, Zenati, Riff, sjs
 2 Afro-Asiatic, Berber, Northern, Zenati, Riff, rif
 2 PAIRS 50.50% 913 BP

 1 Afro-Asiatic, Berber, Eastern, Siwa, siz,
 1 Afro-Asiatic, Berber, Eastern, Siwa, siz,
 1 PAIRS 57.25% 722 BP

 1 Afro-Asiatic, Berber, Northern, Atlas, tzm,
 1 Afro-Asiatic, Berber, Northern, Atlas, tzm,
 1 Afro-Asiatic, Berber, Northern, Atlas, tzm,
 3 PAIRS 59.93% 652 BP

 2 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, bcy
 2 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, fli
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, gde
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, gdu
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, jim
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, nja
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, swq
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, tsh
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.8, ziz
 53 PAIRS 19.94% 2327 BP

 4 Afro-Asiatic, Chadic, Biu-Mandara, A, A.1, Eastern
 2 Afro-Asiatic, Chadic, Biu-Mandara, A, A.1, Western
 8 PAIRS 16.99% 2571 BP

 3 Afro-Asiatic, Chadic, Biu-Mandara, A, A.2, 1
 5 Afro-Asiatic, Chadic, Biu-Mandara, A, A.2, 2
 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.2, ngx
 23 PAIRS 31.95% 1610 BP

 1 Afro-Asiatic, Chadic, Biu-Mandara, A, A.5, maf

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.5,mif
1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.5,mlw
1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.5,mlr
1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.5,gnd
10 PAIRS 15.45% 2715 BP

1 Afro-Asiatic,Cushitic,Central,Southern,awn,
1 Afro-Asiatic,Cushitic,Central,Southern,awn,
1 PAIRS 80.84% 197 BP

1 Afro-Asiatic,Cushitic,Central,Northern,byn,
1 Afro-Asiatic,Cushitic,Central,Northern,byn,
1 PAIRS 57.52% 715 BP

1 Afro-Asiatic,Cushitic,Central,Western,ahg,
1 Afro-Asiatic,Cushitic,Central,Western,ahg,
1 PAIRS 39.14% 1301 BP

1 Afro-Asiatic,Cushitic,Central,Eastern,xan,
1 Afro-Asiatic,Cushitic,Central,Eastern,xan,
1 PAIRS 74.12% 329 BP

2 Afro-Asiatic,Chadic,East,B,B.1,1
2 Afro-Asiatic,Chadic,East,B,B.1,2
4 PAIRS 16.33% 2631 BP

1 Afro-Asiatic,Cushitic,East,Saho-Afar,aar,
1 Afro-Asiatic,Cushitic,East,Saho-Afar,aar,
1 PAIRS 61.59% 611 BP

1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,arv,
1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,arv,
1 PAIRS 81.69% 181 BP

1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,bsw,
1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,bsw,
1 PAIRS 62.46% 589 BP

1 Afro-Asiatic,Cushitic,East,Oromo,gax,
1 Afro-Asiatic,Cushitic,East,Oromo,gax,
1 PAIRS 71.22% 390 BP

1 Afro-Asiatic,Cushitic,East,Highland,bji,
1 Afro-Asiatic,Cushitic,East,Highland,bji,
1 PAIRS 55.77% 762 BP

1 Afro-Asiatic,Cushitic,East,Dullay,dox,
1 Afro-Asiatic,Cushitic,East,Dullay,dox,
1 PAIRS 32.48% 1585 BP

1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,dsh,
1 Afro-Asiatic,Cushitic,East,WesternOmo-Tana,dsh,

1	PAIRS	58.21%	697 BP
1	Afro-Asiatic, Cushitic, East, Dullay, gwd,		
1	Afro-Asiatic, Cushitic, East, Dullay, gwd,		
1	Afro-Asiatic, Cushitic, East, Dullay, gwd,		
1	Afro-Asiatic, Cushitic, East, Dullay, gwd,		
6	PAIRS	40.07%	1265 BP
1	Afro-Asiatic, Cushitic, East, Highland, drs,		
1	Afro-Asiatic, Cushitic, East, Highland, drs,		
1	PAIRS	72.94%	353 BP
1	Afro-Asiatic, Cushitic, East, Konso-Gidole, gdl,		
1	Afro-Asiatic, Cushitic, East, Konso-Gidole, gdl,		
1	PAIRS	69.30%	431 BP
1	Afro-Asiatic, Cushitic, East, Highland, hdy,		
1	Afro-Asiatic, Cushitic, East, Highland, hdy,		
1	PAIRS	77.17%	268 BP
1	Afro-Asiatic, Cushitic, East, Highland, ktb,		
1	Afro-Asiatic, Cushitic, East, Highland, ktb,		
1	PAIRS	62.15%	597 BP
1	Afro-Asiatic, Cushitic, East, Konso-Gidole, kxc,		
1	Afro-Asiatic, Cushitic, East, Konso-Gidole, kxc,		
1	PAIRS	64.48%	541 BP
1	Afro-Asiatic, Cushitic, East, Oromo, gaz,		
1	Afro-Asiatic, Cushitic, East, Oromo, gaz,		
1	PAIRS	56.57%	740 BP
1	Afro-Asiatic, Cushitic, East, Rendille-Boni, rel,		
1	Afro-Asiatic, Cushitic, East, Rendille-Boni, rel,		
1	PAIRS	64.38%	543 BP
1	Afro-Asiatic, Cushitic, East, Saho-Afar, ssy,		
1	Afro-Asiatic, Cushitic, East, Saho-Afar, ssy,		
1	PAIRS	51.71%	877 BP
1	Afro-Asiatic, Cushitic, East, Highland, sid,		
1	Afro-Asiatic, Cushitic, East, Highland, sid,		
1	PAIRS	63.74%	559 BP
1	Afro-Asiatic, Cushitic, East, Somali, som,		
1	Afro-Asiatic, Cushitic, East, Somali, som,		
1	PAIRS	76.55%	280 BP
1	Afro-Asiatic, Cushitic, East, Dullay, tsb,		
1	Afro-Asiatic, Cushitic, East, Dullay, tsb,		
1	PAIRS	49.87%	932 BP

15 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-
 Gimira
 1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Janjero
 15 PAIRS 18.96% 2404 BP

 1 Afro-Asiatic, Omotic, North, Mao, West, gza
 1 Afro-Asiatic, Omotic, North, Mao, West, hoz
 1 PAIRS 14.59% 2803 BP

 3 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gonga, South
 2 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gonga, North
 1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gonga, Central
 11 PAIRS 31.31% 1641 BP

 6 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal
 8 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer
 48 PAIRS 23.58% 2072 BP

 1 Afro-Asiatic, Semitic, Central, South, Arabic, afb
 1 Afro-Asiatic, Semitic, Central, South, Arabic, arq
 1 Afro-Asiatic, Semitic, Central, South, Arabic, arz
 1 Afro-Asiatic, Semitic, Central, South, Arabic, mlt
 1 Afro-Asiatic, Semitic, Central, South, Arabic, ary
 2 Afro-Asiatic, Semitic, Central, South, Arabic, apc
 1 Afro-Asiatic, Semitic, Central, South, Arabic,
 1 Afro-Asiatic, Semitic, Central, South, Arabic, ajp
 1 Afro-Asiatic, Semitic, Central, South, Arabic, arb
 1 Afro-Asiatic, Semitic, Central, South, Arabic, aeb
 54 PAIRS 41.72% 1204 BP

 4 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Central
 2 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Mandaic
 8 PAIRS 28.49% 1784 BP

 2 Afro-Asiatic, Semitic, South, Ethiopian, North, tig
 2 Afro-Asiatic, Semitic, South, Ethiopian, North, tir
 4 PAIRS 35.97% 1429 BP

 6 Afro-Asiatic, Chadic, West, A, A.1, gwn
 3 Afro-Asiatic, Chadic, West, A, A.1, hau
 18 PAIRS 38.42% 1329 BP

 1 Afro-Asiatic, Chadic, West, B, B.3, Boghom
 1 Afro-Asiatic, Chadic, West, B, B.3, dot
 7 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper
 1 Afro-Asiatic, Chadic, West, B, B.3, Eastern
 24 PAIRS 17.97% 2485 BP

 8 Afro-Asiatic, Chadic, West, A, A.2, Bole
 3 Afro-Asiatic, Chadic, West, A, A.2, Tangale
 24 PAIRS 13.59% 2910 BP

1 Afro-Asiatic,Chadic,West,B,B.2,mkf
 1 Afro-Asiatic,Chadic,West,B,B.2,wji
 1 PAIRS 19.45% 2365 BP

1 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowFranconian,afr
 2 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowFranconian,nld
 2 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowFranconian,vls
 1 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowFranconian,zea
 13 PAIRS 58.93% 678 BP

4 Indo-European,Germanic,West,HighGerman,German,UpperGerman
 4 Indo-
 European,Germanic,West,HighGerman,German,MiddleGerman
 16 PAIRS 44.33% 1111 BP

1 Indo-European,Germanic,North,EastScandinavian,Danish-
 Swedish,Danish-Riksmal
 2 Indo-European,Germanic,North,EastScandinavian,Danish-
 Swedish,Swedish
 2 Indo-European,Germanic,North,EastScandinavian,Danish-
 Swedish,Danish-Bokmal
 8 PAIRS 48.69% 969 BP

1 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowSaxon,nds
 1 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowSaxon,pdt
 1 Indo-European,Germanic,West,LowSaxon-
 LowFranconian,LowSaxon,stl
 3 PAIRS 50.16% 923 BP

5 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Dardic,Shina
 9 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Dardic,Chitral
 3 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Dardic,Kunar
 4 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Dardic,Kohistani
 1 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Dardic,Kashmiri
 176 PAIRS 26.97% 1868 BP

8 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Lahnda,hnd
 6 Indo-European,Indo-Iranian,Indo-
 Aryan,Northwesternzone,Lahnda,hno

2 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, pnb

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, skr

92 PAIRS 67.64% 468 BP

7 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Vlax

7 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Balkan

12 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern

1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani,

243 PAIRS 61.92% 603 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Easternzone, Bengali-Assamese, ben

1 Indo-European, Indo-Iranian, Indo-Aryan, Easternzone, Bengali-Assamese, ccp

1 PAIRS 39.86% 1273 BP

36 Indo-European, Indo-Iranian, Iranian, Eastern, Southeastern, Pashto

8 Indo-European, Indo-Iranian, Iranian, Eastern, Southeastern, Pamir

288 PAIRS 10.61% 3287 BP

3 Indo-European, Indo-Iranian, Iranian, Western, Southwestern, Persian

1 Indo-European, Indo-Iranian, Iranian, Western, Southwestern, Tat

3 PAIRS 31.75% 1619 BP

1 Indo-European, Indo-Iranian, Iranian, Western, Northwestern, Kurdish

1 Indo-European, Indo-Iranian, Iranian, Western, Northwestern, Ormuri-Parachi

1 Indo-European, Indo-Iranian, Iranian, Western, Northwestern, Zaza-Gorani

3 PAIRS 17.59% 2519 BP

2 Indo-European, Indo-Iranian, Iranian, Eastern, Northeastern, oss

1 Indo-European, Indo-Iranian, Iranian, Eastern, Northeastern, yai

2 PAIRS 17.74% 2505 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Pyrenean-Mozarabic

9 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian

9 PAIRS 37.90% 1350 BP

1 Indo-European, Italic, Romance, Italo-Western, Italo-Dalmatian, ita

1 Indo-European, Italic, Romance, Italo-Western, Italo-Dalmatian, scn

1 PAIRS 43.90% 1126 BP

1 Indo-European, Italic, Romance, Eastern, ron,

1 Indo-European, Italic, Romance, Eastern, ron,

1 PAIRS 73.17% 349 BP

1 Indo-European, Slavic, West, Sorbian, dsb,

1 Indo-European, Slavic, West, Sorbian, dsb,

1 PAIRS 76.75% 276 BP

1 Altaic, Mongolic, Eastern, Oirat-Khalkha, Khalkha-Buriat, Buriat

1 Altaic, Mongolic, Eastern, Oirat-Khalkha, Khalkha-Buriat, MongolianProper

1 PAIRS 19.81% 2337 BP

1 Altaic, Mongolic, Eastern, Dagur, dta,

1 Altaic, Mongolic, Eastern, Dagur, dta,

1 PAIRS 57.01% 728 BP

1 Altaic, Tungusic, Northern, Even, eve,

1 Altaic, Tungusic, Northern, Even, eve,

1 PAIRS 54.43% 799 BP

1 Altaic, Tungusic, Northern, Evenki, evn,

1 Altaic, Tungusic, Northern, Evenki, evn,

1 Altaic, Tungusic, Northern, Evenki, evn,

1 Altaic, Tungusic, Northern, Evenki, evn,

1 Altaic, Tungusic, Northern, Evenki, evn,

10 PAIRS 70.60% 403 BP

4 Altaic, Tungusic, Southern, Southeast, Nanaj, gld

1 Altaic, Tungusic, Southern, Southeast, Nanaj, oaa

1 Altaic, Tungusic, Southern, Southeast, Nanaj, ulc

9 PAIRS 52.99% 840 BP

1 Altaic, Tungusic, Southern, Southwest, mnc,

1 Altaic, Tungusic, Southern, Southwest, mnc,

1 PAIRS 59.56% 662 BP

1 Altaic, Tungusic, Southern, Southeast, Udihe, oac

1 Altaic, Tungusic, Southern, Southeast, Udihe, ude

1 PAIRS 65.05% 528 BP

1 Altaic, Turkic, Southern, Turkish, kmz,

1 Altaic, Turkic, Southern, Turkish, kmz,

1 Altaic, Turkic, Southern, Turkish, kmz,

1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
1	Altaic,Turkic,Southern,Turkish,kmz,		
231	PAIRS	71.43%	385 BP
1	Altaic,Turkic,Western,Uralian,tat,		
1	Altaic,Turkic,Western,Uralian,tat,		
1	Altaic,Turkic,Western,Uralian,tat,		
3	PAIRS	71.14%	391 BP
1	Altaic,Turkic,Southern,Turkish,tur,		
1	Altaic,Turkic,Southern,Turkish,tur,		
1	PAIRS	58.60%	686 BP
1	Japonic,Ryukyuan,Amami-Okinawan,SouthernAmami-		
Okinawan,ryu,			
1	Japonic,Ryukyuan,Amami-Okinawan,SouthernAmami-		
Okinawan,ryu,			
1	PAIRS	88.07%	66 BP
1	NorthCaucasian,EastCaucasian,Tsezic,EastTsezic,kap,		
1	NorthCaucasian,EastCaucasian,Tsezic,EastTsezic,kap,		
1	PAIRS	64.49%	541 BP
1	NorthCaucasian,EastCaucasian,Tsezic,WestTsezic,khv,		
1	NorthCaucasian,EastCaucasian,Tsezic,WestTsezic,khv,		
1	PAIRS	60.00%	651 BP
1	NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,EastLezgic,agx		
1	NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,EastLezgic,lez		
1	NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,EastLezgic,tab		
3	PAIRS	38.92%	1309 BP

1 NorthCaucasian,EastCaucasian,Lezgic,Archi,aqc,
 1 NorthCaucasian,EastCaucasian,Lezgic,Archi,aqc,
 1 PAIRS 73.01% 352 BP

 1
 NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,SouthLezgic,bdk
 1
 NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,SouthLezgic,kry
 1 PAIRS 59.19% 671 BP

 1
 NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,WestLezgic,rut
 1
 NorthCaucasian,EastCaucasian,Lezgic,NuclearLezgic,WestLezgic,tkr
 1 PAIRS 33.11% 1556 BP

 2 Dravidian,South-Central,Gondi-Kui,Konda-Kui,Manda-Kui,Kui-Kuvi
 1 Dravidian,South-Central,Gondi-Kui,Konda-Kui,Manda-Kui,Manda-Pengo
 2 PAIRS 30.76% 1668 BP

 2 Dravidian,Southern,Tamil-Kannada,Tamil-Kodagu,Toda-Kota,kfe
 1 Dravidian,Southern,Tamil-Kannada,Tamil-Kodagu,Toda-Kota,tcx
 2 PAIRS 29.67% 1722 BP

 2 Dravidian,Southern,Tamil-Kannada,Tamil-Kodagu,Tamil-Malayalam,Malayalam
 1 Dravidian,Southern,Tamil-Kannada,Tamil-Kodagu,Tamil-Malayalam,Tamil
 2 PAIRS 49.31% 949 BP

 3 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Bodo-Garo,Koch
 5 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Bodo-Garo,Bodo
 1 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Bodo-Garo,Garo
 23 PAIRS 28.24% 1798 BP

 2 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Konyak,nbc
 1 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Konyak,njb
 1 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Konyak,nbe
 1 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Konyak,nph
 1 Sino-Tibetan,Tibeto-Burman,Jingpho-Konyak-Bodo,Konyak-Bodo-Garo,Konyak,nnp

14 PAIRS 21.79% 2192 BP

3 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Sunwari

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Chepeng

3 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Kham

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Magar

22 PAIRS 11.86% 3118 BP

2 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Almora

2 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Kanauri

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Eastern

8 PAIRS 11.04% 3227 BP

7 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic

19 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Dhimal

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Bodish

186 PAIRS 15.22% 2739 BP

6 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western

5 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern

30 PAIRS 17.63% 2515 BP

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish, Northern, acn

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Burmish, Northern, atb

1 PAIRS 27.99% 1811 BP

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Southern, ahk

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Southern, bzi

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Southern, byo

3 PAIRS 17.05% 2566 BP

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Northern, yig

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Northern, iii

1 PAIRS 23.94% 2049 BP

2 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, jiu

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, lhu
 2 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, ywt
 1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, nuf
 13 PAIRS 14.06% 2859 BP

1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Bghai, Unclassified
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Bghai, Western
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Bghai, Eastern
 3 PAIRS 15.54% 2706 BP

1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah, kxf
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah, kvu
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah, kvy
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah, eky
 1 Sino-Tibetan, Tibeto-Burman, Karen, Sgaw-Bghai, Kayah, kyu
 10 PAIRS 26.07% 1919 BP

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Central, cnh
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Central, lus
 1 PAIRS 58.20% 697 BP

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Northern, ctd
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Northern, tcz
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Kuki-Chin, Northern, tro
 3 PAIRS 39.86% 1273 BP

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Ao, njo
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Ao, njh
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Ao, nsa
 3 PAIRS 16.01% 2661 BP

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri, nri
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri, nbi
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri, npo
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri, nnl
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Angami-Pochuri, nsm
 10 PAIRS 12.84% 2997 BP

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Zeme, njn
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Zeme, nma
 1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Zeme, nme

1 Sino-Tibetan, Tibeto-Burman, Kuki-Chin-Naga, Naga, Zeme, nzm
 6 PAIRS 33.19% 1552 BP

1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, adi,
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, adi,
 1 PAIRS 54.85% 787 BP

1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, dap,
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, dap,
 1 Sino-Tibetan, Tibeto-Burman, NorthAssam, Tani, dap,
 3 PAIRS 49.32% 949 BP

1 Sino-Tibetan, Tibeto-Burman, Tangut-Qiang, Qiangic, qxs,
 1 Sino-Tibetan, Tibeto-Burman, Tangut-Qiang, Qiangic, qxs,
 1 PAIRS 26.60% 1888 BP

1 Tai-Kadai, Kadai, Yang-Biao, Buyang, Western,
 1 Tai-Kadai, Kadai, Yang-Biao, Buyang, Western, yha
 1 PAIRS 30.08% 1701 BP

20 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern
 8 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern
 13 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central
 524 PAIRS 49.45% 945 BP

1 Austro-Asiatic, Mon-Khmer, Aslian, Senoic, sea,
 1 Austro-Asiatic, Mon-Khmer, Aslian, Senoic, sea,
 1 PAIRS 83.77% 143 BP

2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, CentralBahnaric, bdq
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, CentralBahnaric, tpu
 2 PAIRS 41.14% 1225 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Brao-Kravet
 3 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Oi-The
 2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Laven
 2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Nyaheun
 23 PAIRS 67.06% 481 BP

6 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Sre-Mnong
 2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Stieng-Chrau
 12 PAIRS 48.73% 967 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, North Bahnaric, East
 5 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, North Bahnaric, West
 5 PAIRS 29.13% 1750 BP

2 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, West Katuic, Brou-So
 3 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, West Katuic, Kuay-Nheu
 6 PAIRS 47.82% 996 BP

3 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, East Katuic, Katu-Pacoh
 1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, East Katuic, Ngeq-Nkriang
 3 PAIRS 45.66% 1066 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khasian, kha,
 1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khasian, kha,
 1 PAIRS 64.16% 549 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Khmer, khm,
 1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Khmer, khm,
 1 PAIRS 52.87% 843 BP

3 Austro-Asiatic, Munda, North Munda, Kherwari, Santali, mjsx
 8 Austro-Asiatic, Munda, North Munda, Kherwari, Santali, sat
 24 PAIRS 85.94% 104 BP

1 Austro-Asiatic, Munda, North Munda, Kherwari, Mundari, kfp
 2 Austro-Asiatic, Munda, North Munda, Kherwari, Mundari, unr
 2 PAIRS 47.76% 998 BP

7 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic
 1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Lametic
 1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Angkuic
 15 PAIRS 23.53% 2076 BP

2 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Danau
 4 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Palaung
 2 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Rieng
 20 PAIRS 21.91% 2184 BP

2 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khmuic, Mal-Khmu', Khmu'

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khmuic, Mal-Khmu', Mal-Phrai
 2 PAIRS 22.47% 2146 BP

1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Chut, scb,
 1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Chut, scb,
 1 PAIRS 79.64% 220 BP

1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Vietnamese, vie,
 1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Vietnamese, vie,
 1 Austro-Asiatic, Mon-Khmer, Viet-Muong, Vietnamese, vie,
 3 PAIRS 76.02% 290 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, North and East, Bali-Sasak-Sumbawa, ban
 1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, North and East, Bali-Sasak-Sumbawa, Sasak-Sumbawa
 1 PAIRS 28.36% 1791 BP

1 Austronesian, Malayo-Polynesian, Greater Barito, East, Central-South, Central
 5 Austronesian, Malayo-Polynesian, Greater Barito, East, Central-South, South
 5 PAIRS 57.61% 713 BP

1 Austronesian, Malayo-Polynesian, Greater Barito, West, North, otd
 2 Austronesian, Malayo-Polynesian, Greater Barito, West, North, sya
 2 PAIRS 65.45% 518 BP

1 Austronesian, Malayo-Polynesian, Greater Barito, East, North, lbx
 1 Austronesian, Malayo-Polynesian, Greater Barito, East, North, twy
 1 PAIRS 80.21% 209 BP

4 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, plt
 4 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, bjg
 1 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, xmv
 1 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, bhr
 1 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, bmm
 3 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, tdx
 3 Austronesian, Malayo-Polynesian, Greater Barito, East, Malagasy, skg

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, xmw
135 PAIRS 58.51% 689 BP

7 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata
18 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic
3 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Timor, Ramelaic
201 PAIRS 24.30% 2027 BP

32 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, CentralMaluku, East
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, CentralMaluku, Buru
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, CentralMaluku, Sula
65 PAIRS 16.42% 2623 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, akg
2 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba,
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, bhp
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, nfa
2 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, Ende-Lio
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, kod
4 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, xbr
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, lmy
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, mvd
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, mqy
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, nxg
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, ple
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, hvn
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, ssq
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, wnk
1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-Polynesian, Bima-Sumba, wew

202 PAIRS 38.20% 1338 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, agf
2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, oni
2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, skz
8 PAIRS 52.87% 843 BP

7 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South
3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, North
21 PAIRS 17.75% 2505 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Aru, kvo
1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Aru,
1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Aru, txn
1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Aru, udj
6 PAIRS 44.77% 1096 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Kei-Tanimbar
1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Southern
3 PAIRS 30.93% 1659 BP

4 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic
1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kenyah
4 PAIRS 24.08% 2040 BP

22 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Ibanic
22 PAIRS 55.79% 761 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Achenese
2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Coastal
4 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands
14 PAIRS 27.12% 1859 BP

13 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan

10 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol

10 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mamanwa

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Tagalog

461 PAIRS 48.55% 973 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, bya

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, tgt

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, pwm

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, plw

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, plv

24 PAIRS 61.04% 624 BP

1 Austronesian, Malayo-Polynesian, Philippine, Kalamian, tbk,

1 Austronesian, Malayo-Polynesian, Philippine, Kalamian, tbk,

1 PAIRS 64.78% 534 BP

10 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, NorthernCordillera, CagayanValley

4 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, NorthernCordillera, NortheasternLuzon

40 PAIRS 39.61% 1283 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Dayic, Kelabitic

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Dayic, Murutic

1 PAIRS 40.06% 1265 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Berawan-LowerBaram, LowerBaram

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Berawan-LowerBaram, Berawan

1 PAIRS 33.55% 1535 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Dusunic, Bisaya

2 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Dusunic, Dusun

2 PAIRS 36.27% 1417 BP

124 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic

283 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic

9 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Temotu

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, St.Matthias

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Yapese

43768 PAIRS 10.31% 3331 BP

18 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-Bajaw, Sulu-Borneo, BorneoCoastBajaw

3 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-Bajaw, Sulu-Borneo, InnerSuluSama

54 PAIRS 45.12% 1085 BP

30 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea

13 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera

390 PAIRS 11.84% 3121 BP

2 Austronesian, Malayo-Polynesian, Philippine, Bilic, Blaan, bpr

2 Austronesian, Malayo-Polynesian, Philippine, Bilic, Blaan, bps

4 PAIRS 81.68% 181 BP

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, North

11 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central

4 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South

89 PAIRS 49.89% 931 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Danao, Maranao-Iranon

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Danao, Magindanao
 2 PAIRS 65.36% 520 BP

6 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Southern
 4 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Northern
 24 PAIRS 49.91% 931 BP

1 Austronesian, Malayo-Polynesian, Celebic, Kaili-Pamona, Northern, Pamona
 1 Austronesian, Malayo-Polynesian, Celebic, Kaili-Pamona, Northern, Kaili
 1 PAIRS 43.73% 1132 BP

21 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton
 22 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki
 462 PAIRS 31.16% 1648 BP

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tolitoli, bz1
 1 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tolitoli, txe
 1 PAIRS 52.31% 859 BP

1 Austronesian, Malayo-Polynesian, SouthSulawesi, Bugis, bug,
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Bugis, bug,
 1 PAIRS 74.32% 325 BP

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Gorontalo-Mongondow, Gorontalo
 1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Gorontalo-Mongondow, Mongondow
 3 PAIRS 37.03% 1385 BP

1 Austronesian, Malayo-Polynesian, SouthSulawesi, Makassar, kjc,
 1 Austronesian, Malayo-Polynesian, SouthSulawesi, Makassar, kjc,
 1 PAIRS 95.32% -53 BP

1 Austronesian, Malayo-Polynesian, Celebic, Wotu-Wolio, Wolio-Kamaru, kgx
 1 Austronesian, Malayo-Polynesian, Celebic, Wotu-Wolio, Wolio-Kamaru, wlo
 1 PAIRS 53.90% 814 BP

1 Austronesian, Malayo-
 Polynesian, SouthSulawesi, Makassar, mak,
 1 Austronesian, Malayo-
 Polynesian, SouthSulawesi, Makassar, mak,
 1 PAIRS 58.13% 699 BP

2 Austronesian, Malayo-
 Polynesian, Philippine, Sangiric, Northern, snl
 3 Austronesian, Malayo-
 Polynesian, Philippine, Sangiric, Northern, sxn
 6 PAIRS 69.20% 434 BP

3 Austronesian, Malayo-
 Polynesian, Philippine, Minahasan, North, Northeast
 1 Austronesian, Malayo-
 Polynesian, Philippine, Minahasan, North, tnt
 3 PAIRS 79.19% 228 BP

1 Austronesian, Malayo-Polynesian, NorthwestSumatra-
 BarrierIslands, Nias, nia,
 1 Austronesian, Malayo-Polynesian, NorthwestSumatra-
 BarrierIslands, Nias, nia,
 1 PAIRS 81.02% 193 BP

1 Trans-NewGuinea, Eleman, NuclearEleman, Western, xeu,
 1 Trans-NewGuinea, Eleman, NuclearEleman, Western, xeu,
 1 PAIRS 62.42% 590 BP

1 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, kwe,
 1 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, kwe,
 1 PAIRS 56.99% 729 BP

1 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, xau,
 1 Tor-Kwerba, GreaterKwerba, Kwerba, Nuclear, xau,
 1 PAIRS 53.38% 829 BP

1 Tor-Kwerba, GreaterKwerba, Kwerba, WestCoast, tmj,
 1 Tor-Kwerba, GreaterKwerba, Kwerba, WestCoast, tmj,
 1 PAIRS 80.97% 194 BP

1 Trans-
 NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Eastern, bzp,
 1 Trans-
 NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Eastern, bzp,
 1 Trans-
 NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Eastern, bzp,
 1 Trans-
 NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Eastern, bzp,
 6 PAIRS 65.31% 521 BP

1 Trans-
 NewGuinea, SouthBird'sHead, SouthBird'sHeadProper, Central, xod,

1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Central, xod,
 1 PAIRS 85.11% 119 BP

1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj,
 1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj,
 1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj,
 1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj,
 1 Trans-
 NewGuinea, SouthBird' sHead, SouthBird' sHeadProper, Eastern, jbj,
 10 PAIRS 51.42% 885 BP

1 Trans-NewGuinea, West, Dani, DaniProper, dni,
 1 Trans-NewGuinea, West, Dani, DaniProper, dni,
 1 Trans-NewGuinea, West, Dani, DaniProper, dni,
 3 PAIRS 56.08% 753 BP

1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Gadsup-Auyana-
 Awa, agd,
 1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Gadsup-Auyana-
 Awa, agd,
 1 PAIRS 71.68% 380 BP

1 Trans-NewGuinea, Kainantu-Goroka, Gorokan, Gahuku-
 Benabena, aso,
 1 Trans-NewGuinea, Kainantu-Goroka, Gorokan, Gahuku-
 Benabena, aso,
 1 PAIRS 58.38% 692 BP

1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Gadsup-Auyana-
 Awa, awb,
 1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Gadsup-Auyana-
 Awa, awb,
 1 PAIRS 37.53% 1365 BP

1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Tairora, bjr,
 1 Trans-NewGuinea, Kainantu-Goroka, Kainantu, Tairora, bjr,
 1 PAIRS 87.82% 71 BP

1 Trans-NewGuinea, Kainantu-Goroka, Gorokan, Gahuku-
 Benabena, gah,
 1 Trans-NewGuinea, Kainantu-Goroka, Gorokan, Gahuku-
 Benabena, gah,
 1 PAIRS 61.11% 623 BP

1 Trans-NewGuinea, SoutheastPapuan, Koiarian, Koiaric, kbk,
 1 Trans-NewGuinea, SoutheastPapuan, Koiarian, Koiaric, kbk,
 1 PAIRS 79.04% 231 BP

1 Trans-NewGuinea,Madang,Croisilles,Pihom,Omosan,abw
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Omosan,kgu
 1 PAIRS 19.16% 2388 BP

1 Trans-NewGuinea,Madang,SouthAdelbertRange,Wanang,Atan,anh
 1 Trans-NewGuinea,Madang,SouthAdelbertRange,Wanang,Atan,ate
 1 PAIRS 19.39% 2370 BP

1 Trans-NewGuinea,Madang,Croisilles,Mugil,mlp,
 1 Trans-NewGuinea,Madang,Croisilles,Mugil,mlp,
 1 PAIRS 75.87% 293 BP

1 Trans-NewGuinea,Madang,Croisilles,Pihom,Kumilan,bie
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Kumilan,mvq
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Kumilan,mhl
 3 PAIRS 21.98% 2179 BP

1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,bql
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,prw
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,ukg
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,wnu
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,ybm
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Numugenan,yrw
 15 PAIRS 34.44% 1496 BP

1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Wanang,Emuan,ena
 1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Wanang,Emuan,mmq
 1 PAIRS 17.63% 2515 BP

1 Trans-NewGuinea,Madang,Croisilles,Pihom,Tiboran,hih
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Tiboran,xow
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Tiboran,mjj
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Tiboran,mmi
 1 Trans-NewGuinea,Madang,Croisilles,Pihom,Tiboran,wnb
 10 PAIRS 37.99% 1346 BP

1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Pomoikan,imi
 1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Pomoikan,msx
 1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Pomoikan,pda
 3 PAIRS 28.51% 1783 BP

1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Sikan,kqa
 1 Trans-
 NewGuinea,Madang,SouthAdelbertRange,Josephstaal,Sikan,sbq
 1 PAIRS 37.41% 1370 BP

1 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran, ped
 2 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran, sks
 1 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran, pla
 5 PAIRS 21.83% 2189 BP

1 Trans-NewGuinea, Ok-Awyu, Ok, Lowland, kts,
 1 Trans-NewGuinea, Ok-Awyu, Ok, Lowland, kts,
 1 PAIRS 66.04% 505 BP

1 Trans-NewGuinea, Ok-Awyu, Ok, Lowland, yon,
 1 Trans-NewGuinea, Ok-Awyu, Ok, Lowland, yon,
 1 PAIRS 62.60% 586 BP

3 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, abz
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, adn
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, hmu
 4 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, klz
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, kpu
 6 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, woi
 3 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, kyo
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, kvd
 163 PAIRS 15.00% 2760 BP

6 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, ke0
 4 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, lev
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, nec
 5 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, twe
 105 PAIRS 21.92% 2184 BP

1 Australian, Daly, Bringen-Wagaydy, Wagaydy, wdj,
 1 Australian, Daly, Bringen-Wagaydy, Wagaydy, wdj,
 1 PAIRS 86.25% 98 BP

1 Australian, Daly, Malagmalag, DalyProper, zml,
 1 Australian, Daly, Malagmalag, DalyProper, zml,
 1 PAIRS 21.58% 2207 BP

1 Australian,Pama-Nyungan,Paman,NorthernPama,amz,
1 Australian,Pama-Nyungan,Paman,NorthernPama,amz,
1 Australian,Pama-Nyungan,Paman,NorthernPama,amz,
3 PAIRS 79.11% 230 BP

1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,duj,
1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,duj,
1 PAIRS 39.40% 1291 BP

1 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg,
1 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg,
1 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg,
1 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg,
1 Australian,Pama-Nyungan,Yuulngu,Dhangu,dhg,
10 PAIRS 44.20% 1116 BP

1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,guf,
1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,guf,
1 Australian,Pama-Nyungan,Yuulngu,Dhuwal,guf,
3 PAIRS 62.68% 584 BP

1 Australian,Pama-Nyungan,Paman,Lamalamic,lby,
1 Australian,Pama-Nyungan,Paman,Lamalamic,lby,
1 PAIRS 46.36% 1043 BP

1 Australian,Pama-Nyungan,Paman,NorthernPama,lnj,
1 Australian,Pama-Nyungan,Paman,NorthernPama,lnj,
1 PAIRS 14.23% 2840 BP

1 Australian,Pama-Nyungan,South-West,Wati,mpj,
1 Australian,Pama-Nyungan,South-West,Wati,mpj,
1 Australian,Pama-Nyungan,South-West,Wati,mpj,
3 PAIRS 42.25% 1184 BP

1 Australian,Pama-Nyungan,Paman,Mayabic,mnt,
1 Australian,Pama-Nyungan,Paman,Mayabic,mnt,
1 Australian,Pama-Nyungan,Paman,Mayabic,mnt,
3 PAIRS 45.63% 1067 BP

1 Australian,Pama-Nyungan,South-West,Nyungar,nys,
1 Australian,Pama-Nyungan,South-West,Nyungar,nys,
1 Australian,Pama-Nyungan,South-West,Nyungar,nys,
3 PAIRS 66.76% 488 BP

1 Australian,Pama-Nyungan,Paman,NorthernPama,urf,
1 Australian,Pama-Nyungan,Paman,NorthernPama,urf,
1 Australian,Pama-Nyungan,Paman,NorthernPama,urf,
3 PAIRS 75.66% 298 BP

1 Eskimo-Aleut,Eskimo,Yupik,Siberian,ess,
1 Eskimo-Aleut,Eskimo,Yupik,Siberian,ess,
1 PAIRS 58.03% 701 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Beaver-Sekani

2 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Carrier-Chilcotin

2 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Hare-Chipewyan

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Han-Kutchin

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Sarcee

19 PAIRS 26.23% 1910 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, Oregon

4 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, California

4 PAIRS 30.02% 1705 BP

1 Algonquian, Central, Ojibwa, ciw,

1 Algonquian, Central, Ojibwa, ciw,

1 PAIRS 39.29% 1295 BP

1 Iroquoian, NorthernIroquoian, FiveNations, Seneca-
Onondaga, Seneca-Cayuga, cay

1 Iroquoian, NorthernIroquoian, FiveNations, Seneca-
Onondaga, Seneca-Cayuga, see

1 PAIRS 41.92% 1196 BP

1 Siouan, SiouanProper, Central, MississippiValley, Dakota, asb

2 Siouan, SiouanProper, Central, MississippiValley, Dakota, lkt

2 PAIRS 56.67% 737 BP

1 Siouan, SiouanProper, Central, MississippiValley, Dhegiha, ksk

1 Siouan, SiouanProper, Central, MississippiValley, Dhegiha, oma

1 Siouan, SiouanProper, Central, MississippiValley, Dhegiha, osa

1 Siouan, SiouanProper, Central, MississippiValley, Dhegiha, qua

6 PAIRS 47.55% 1005 BP

6 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec, azz

41 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec,

1 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec, nhi

1 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec, nhx

1 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec, nhp

1 Uto-Aztecan, SouthernUto-
Aztecan, Aztecan, GeneralAztec, Aztec, ncl

2 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nln
 1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nhw
 1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nx0
 1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nhc
 1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nhg
 760 PAIRS 42.20% 1186 BP

1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Cahita, yaq,
 1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Cahita, yaq,
 1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Cahita, yaq,
 1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Cahita, yaq,
 6 PAIRS 73.76% 336 BP

1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Southern, ute,
 1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Southern, ute,
 1 Uto-Aztecan, NorthernUto-Aztecan, Numic, Southern, ute,
 3 PAIRS 41.49% 1212 BP

1 Penutian, Yok-Utian, Utian, Costanoan, css,
 1 Penutian, Yok-Utian, Utian, Costanoan, css,
 1 PAIRS 39.23% 1297 BP

3 Penutian, Yok-Utian, Utian, Miwokan, Eastern, Sierra
 1 Penutian, Yok-Utian, Utian, Miwokan, Eastern, pmw
 3 PAIRS 40.71% 1241 BP

2 Penutian, Yok-Utian, Utian, Miwokan, Western, csi
 1 Penutian, Yok-Utian, Utian, Miwokan, Western, lmw
 2 PAIRS 40.90% 1234 BP

1 Hoka, Northern, Karok-Shasta, Shasta-Palaihnihan, Palaihnihan, acv
 1 Hoka, Northern, Karok-Shasta, Shasta-Palaihnihan, Palaihnihan, atw
 1 PAIRS 9.53% 3451 BP

3
 Hoka, Northern, Pomo, RussianRiverandEastern, RussianRiver, Southern
 1
 Hoka, Northern, Pomo, RussianRiverandEastern, RussianRiver, Northeastern
 1
 Hoka, Northern, Pomo, RussianRiverandEastern, RussianRiver, Northern
 7 PAIRS 56.36% 746 BP

1 Hoka, Northern, Karok-Shasta, Shasta-Palaihnihan, Shastan, sht

1 Hoka, Northern, Karok-Shasta, Shasta-Palaihnihan, Shastan, ynn
 1 PAIRS -1.74%

 1 Hoka, Esselen-Yuman, Yuman, Delta-Californian, dih,
 1 Hoka, Esselen-Yuman, Yuman, Delta-Californian, dih,
 1 PAIRS 40.42% 1252 BP

 1 Hoka, Esselen-Yuman, Yuman, UplandYuman, yuf,
 1 Hoka, Esselen-Yuman, Yuman, UplandYuman, yuf,
 1 Hoka, Esselen-Yuman, Yuman, UplandYuman, yuf,
 3 PAIRS 53.67% 820 BP

 1 Oto-Manguean, Otopamean, Otomian, Mazahua, maz,
 1 Oto-Manguean, Otopamean, Otomian, Mazahua, maz,
 1 PAIRS 41.01% 1230 BP

 1 Oto-Manguean, Popolocan, Chocho-Popolocan, Chocho, coz,
 1 Oto-Manguean, Popolocan, Chocho-Popolocan, Chocho, coz,
 1 PAIRS 48.14% 986 BP

 1 Mayan, Quichean-Mamean, GreaterMamean, Ixil, agu,
 1 Mayan, Quichean-Mamean, GreaterMamean, Ixil, agu,
 1 PAIRS 68.68% 445 BP

 2 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, quc
 1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, acr
 3 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, qut
 11 PAIRS 78.71% 237 BP

 1 Mayan, Cholan-Tzeltalan, Cholan, Chorti, caa,
 1 Mayan, Cholan-Tzeltalan, Cholan, Chorti, caa,
 1 PAIRS 59.57% 661 BP

 1 Mayan, Quichean-Mamean, GreaterQuichean, Kekchi, kek,
 1 Mayan, Quichean-Mamean, GreaterQuichean, Kekchi, kek,
 1 Mayan, Quichean-Mamean, GreaterQuichean, Kekchi, kek,
 3 PAIRS 75.54% 300 BP

 1 Mayan, Kanjobalan-Chujean, Kanjobalan, Kanjobal-Jacaltepec, jai,
 1 Mayan, Kanjobalan-Chujean, Kanjobalan, Kanjobal-Jacaltepec, jai,
 1 PAIRS 67.04% 482 BP

 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,

1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mms,
 21 PAIRS 69.14% 435 BP

1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mam,
 45 PAIRS 64.38% 543 BP

1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mtz,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mtz,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mtz,
 3 PAIRS 70.11% 414 BP

1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, ttc,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, ttc,
 1 PAIRS 50.98% 899 BP

1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mvj,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mvj,
 1 Mayan, Quichean-Mamean, GreaterMamean, Mamean, mvj,
 3 PAIRS 61.55% 612 BP

2 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel, ckc
 1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel, ckf
 1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel,
 5 PAIRS 84.76% 125 BP

1 Mayan, Quichean-Mamean, GreaterQuichean, Pocom, poa,
 1 Mayan, Quichean-Mamean, GreaterQuichean, Pocom, poa,
 1 PAIRS 92.59% -9 BP

2 Mayan, Quichean-Mamean, GreaterQuichean, Tzutujil, tzj
 1 Mayan, Quichean-Mamean, GreaterQuichean, Tzutujil, tzt
 2 PAIRS 69.78% 421 BP

1 Tucanoan, EasternTucanoan, Central, Bara, bao,
 1 Tucanoan, EasternTucanoan, Central, Bara, bao,
 1 PAIRS 73.89% 334 BP

1 Arawakan, Maipuran, Northern Maipuran, Inland, tae,
 1 Arawakan, Maipuran, Northern Maipuran, Inland, tae,
 1 PAIRS 18.50% 2441 BP

 1 Carib, Northern, East-West Guiana, Macushi-Kapon, Kapon, ake
 1 Carib, Northern, East-West Guiana, Macushi-Kapon, Kapon, aoc
 1 PAIRS 26.94% 1870 BP

 1 Macro-Ge, Ge-Kaingang, Ge, Northwest, Timbira, ram
 1 Macro-Ge, Ge-Kaingang, Ge, Northwest, Timbira, xra
 1 Macro-Ge, Ge-Kaingang, Ge, Northwest, Timbira, xre
 1 Macro-Ge, Ge-Kaingang, Ge, Northwest, Timbira, gvp
 6 PAIRS 40.16% 1262 BP

 2 Macro-Ge, Ge-Kaingang, Ge, Central, Acua, xav
 1 Macro-Ge, Ge-Kaingang, Ge, Central, Acua, xer
 2 PAIRS 37.97% 1347 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 6
 S0 = 92%, R = .72

6 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Leko-Nimbari
 11 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Fali
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Waja-Jen
 101 PAIRS 3.65% 4912 BP

 15 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboïd
 8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid
 40 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Wide Grassfields
 12 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam
 140 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Narrow Bantu
 8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan
 12 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid
 9 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbe
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ndemli

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tikar
19788 PAIRS 4.71% 4522 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Dakoid
8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid
8 PAIRS 6.33% 4075 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, CentralDelta
20 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross
3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, Ogoni
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, UpperCross
156 PAIRS 6.51% 4032 BP

1 Niger-Congo, Mande, Eastern, Eastern, Busa, bqp,
1 Niger-Congo, Mande, Eastern, Eastern, Busa, bqp,
1 PAIRS 82.76% 161 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Guro-Yaoure, goa
1 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Guro-Yaoure, yre
1 PAIRS 72.30% 367 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Tura-Dan-Mano, Mano
2 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Tura-Dan-Mano, Tura-Dan
2 PAIRS 40.71% 1241 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Wan-Mwan, moa
2 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Wan-Mwan, wan
2 PAIRS 27.51% 1838 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora
4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee
20 PAIRS 36.36% 1413 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, deg
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, enn

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, epi

16 PAIRS 42.49% 1176 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Osse

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Southern

6 PAIRS 36.12% 1423 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, erh

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, iso

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, oke

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, urh

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, evh

14 PAIRS 38.58% 1323 BP

13 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern

6 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern

78 PAIRS 5.50% 4286 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Senufo, Suppire-Mamara

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Senufo, Nafaanra

2 PAIRS 27.96% 1813 BP

3 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Ebang-Laru

1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Logol

1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Utoro

7 PAIRS 45.96% 1056 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Idomoid, Akweya, Etulo-Idoma

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Idomoid, Akweya, Eloyi

2 PAIRS 9.08% 3525 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Igbo, ibo

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Igbo, izi

16 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Ega

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Logba

146 PAIRS 8.20% 3679 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Kposo-Ahlo-Bowili, ahl

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Kposo-Ahlo-Bowili, bov

1 PAIRS 9.20% 3505 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Ga-Dangme, ada

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Ga-Dangme, gaa

1 PAIRS 49.11% 955 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Gbe, ewe

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Gbe, Fon

1 PAIRS 32.54% 1582 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Avatime-Nyangbo, avn

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Avatime-Nyangbo, tcd

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, LeftBank, Avatime-Nyangbo, nyb

3 PAIRS 36.07% 1425 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Balant-Ganja, ble

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Balant-Ganja, bjt

1 PAIRS 52.97% 840 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, EasternSenegal-Guinea, Tenda, bif

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, EasternSenegal-Guinea, Tenda, pbp

1 PAIRS 18.10% 2475 BP

2 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel, mfv

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel, knf

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel, pbo

5 PAIRS 22.72% 2128 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Ebira-Gade, ged

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Ebira-Gade, igb

1 PAIRS 11.92% 3110 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Nupe-Gbagyi, Gbagyi-Gbari

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Nupoid, Nupe-Gbagyi, Nupe

1 PAIRS 27.79% 1822 BP

20 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern

80 PAIRS 8.26% 3668 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic, bom

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic, etx

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic, sha

5 PAIRS 12.69% 3015 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, North-Central

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, Izeric

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, South-Central

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, West-Central

9 PAIRS 20.79% 2264 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southeastern, pym

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southeastern, hoe

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southeastern, mae

3 PAIRS 27.45% 1841 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southern, uji

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Southern, mgi

1 PAIRS 49.07% 957 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Tarokoid, pai

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Tarokoid, tdl

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Tarokoid, bsx

3 PAIRS 22.01% 2177 BP

3 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne, Baga

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne, Temne-Banta

3 PAIRS 37.89% 1350 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Kissi

3 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Bullom

3 PAIRS 20.85% 2259 BP

13 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande

6 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka

7 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Ngbandi

345 PAIRS 6.94% 3934 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Ukaan, kcf,

15 PAIRS 57.20% 723 BP

32 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Jogo-Jeri

32 PAIRS 23.36% 2086 BP

2 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Mende-Loma, Mende-Bandi

1 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Mende-Loma, Loma

2 PAIRS 44.53% 1104 BP

3 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Boso

1 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Soninke

3 PAIRS 12.20% 3075 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Kpelle, xpe

1 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Kpelle, gkp

1 PAIRS 40.23% 1259 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Susu-Yalunka, sus

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Susu-Yalunka, yal

1 PAIRS 73.93% 333 BP

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Bagirmi, bmi

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Bagirmi, kyq

1 PAIRS 30.88% 1662 BP

7 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, Vale

7 PAIRS 41.29% 1219 BP

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Kara, kcm,

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Kara, kcm,

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Kara, kcm,

3 PAIRS 79.59% 220 BP

7 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Anuak

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Jur

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Unclassified

2 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Shilluk
44 PAIRS 16.63% 2604 BP

1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Northern, mgd,
21 PAIRS 73.95% 333 BP

1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern, mhi,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern, mhi,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Southern, mhi,
3 PAIRS 55.94% 757 BP

1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, avu,
1 Nilo-Saharan, CentralSudanic, East, Moru-Madi, Central, avu,
1 PAIRS 72.66% 359 BP

4 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-Acholi
1 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Adhola
4 PAIRS 62.58% 587 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, bfa,
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, bfa,
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, bfa,
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Bari, bfa,
6 PAIRS 83.09% 155 BP

4 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Ongamo-Maa
2 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Lotuxo
8 PAIRS 29.16% 1749 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc,
1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc,
1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc,
1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc,
1 Nilo-Saharan, EasternSudanic, Nilotic, Southern, Tatoga, tcc,
10 PAIRS 86.80% 89 BP

1 Nilo-
Saharan, EasternSudanic, Nilotic, Southern, Kalenjin, Nandi-
Markweta, Markweta

1 Nilo-
Saharan,EasternSudanic,Nilotic,Southern,Kalenjin,Nandi-
Markweta,Kipsigis

1 Nilo-
Saharan,EasternSudanic,Nilotic,Southern,Kalenjin,Nandi-
Markweta,Nandi

3 PAIRS 29.36% 1738 BP

4 Nilo-Saharan,EasternSudanic,Nilotic,Eastern,Lotuxo-
Teso,Teso-Turkana,Turkana

1 Nilo-Saharan,EasternSudanic,Nilotic,Eastern,Lotuxo-
Teso,Teso-Turkana,Teso

4 PAIRS 42.82% 1164 BP

2 Nilo-
Saharan,EasternSudanic,Eastern,Surmic,South,Southwest,Kacipo-
Balesi

1 Nilo-
Saharan,EasternSudanic,Eastern,Surmic,South,Southwest,Didinga-
Murle

2 PAIRS 30.23% 1694 BP

1 Nilo-
Saharan,EasternSudanic,Eastern,Surmic,South,Southeast,Kwegu

3 Nilo-
Saharan,EasternSudanic,Eastern,Surmic,South,Southeast,Pastoral

3 PAIRS 18.34% 2455 BP

1 Afro-Asiatic,Berber,Northern,Zenati,East,jbn,

1 Afro-Asiatic,Berber,Northern,Zenati,East,jbn,

1 PAIRS 45.69% 1065 BP

1 Afro-Asiatic,Berber,Northern,Zenati,Mzab-Wargla,oua,

1 Afro-Asiatic,Berber,Northern,Zenati,Mzab-Wargla,oua,

1 PAIRS 76.17% 287 BP

1 Afro-Asiatic,Berber,Northern,Zenati,Riff,rif,

1 Afro-Asiatic,Berber,Northern,Zenati,Riff,rif,

1 PAIRS 67.88% 463 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.8,bcy,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.8,bcy,

1 PAIRS 22.07% 2173 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.3,hig,

21 PAIRS 38.12% 1341 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Eastern,bvw
 2 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Eastern,gqa
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Eastern,hwo
 5 PAIRS 31.44% 1634 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,1,bwr
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,1,ckl
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,1,mfl
 3 PAIRS 40.99% 1231 BP

4 Afro-Asiatic,Chadic,Biu-Mandara,A,A.4,MandaraProper,Glavda
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.4,MandaraProper,Mandara
 4 PAIRS 22.45% 2147 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.8,fli,
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.8,fli,
 1 PAIRS 43.76% 1131 BP

2 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,mfm
 2 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,hbb
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,mrt
 8 PAIRS 51.61% 880 BP

1 Afro-Asiatic,Chadic,East,B,B.1,1,bid
 1 Afro-Asiatic,Chadic,East,B,B.1,1,mmy
 1 PAIRS 30.96% 1658 BP

1 Afro-Asiatic,Chadic,East,B,B.1,2,ckq
 1 Afro-Asiatic,Chadic,East,B,B.1,2,mub
 1 PAIRS 51.34% 888 BP

13 Afro-Asiatic,OmotiC,North,Gonga-Gimojan,Gimojan,Ometo-Gimira,Ometo
 2 Afro-Asiatic,OmotiC,North,Gonga-Gimojan,Gimojan,Ometo-Gimira,Gimira
 26 PAIRS 19.79% 2339 BP

1 Afro-Asiatic,OmotiC,North,Gonga-Gimojan,Gonga,South,kbr
 2 Afro-Asiatic,OmotiC,North,Gonga-Gimojan,Gonga,South,moy
 2 PAIRS 56.91% 731 BP

3 Afro-Asiatic,Semitic,South,Ethiopian,South,Transversal,Amharic-Argobba
 3 Afro-Asiatic,Semitic,South,Ethiopian,South,Transversal,Harari-EastGurage
 9 PAIRS 24.87% 1991 BP

2 Afro-
 Asiatic, Semitic, Central, Aramaic, Eastern, Central, Northeastern
 2 Afro-
 Asiatic, Semitic, Central, Aramaic, Eastern, Central, Northwestern
 4 PAIRS 33.50% 1538 BP

 6 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group
 2 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, n-Group
 12 PAIRS 24.94% 1987 BP

 1 Afro-Asiatic, Semitic, Central, South, Arabic, apc,
 1 Afro-Asiatic, Semitic, Central, South, Arabic, apc,
 1 PAIRS 57.72% 710 BP

 1 Afro-Asiatic, Semitic, South, Ethiopian, North, tig,
 1 Afro-Asiatic, Semitic, South, Ethiopian, North, tig,
 1 PAIRS 58.04% 701 BP

 1 Afro-Asiatic, Semitic, South, Ethiopian, North, tir,
 1 Afro-Asiatic, Semitic, South, Ethiopian, North, tir,
 1 PAIRS 55.30% 775 BP

 5 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1
 1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 2
 5 PAIRS 42.72% 1168 BP

 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 1 Afro-Asiatic, Chadic, West, A, A.1, gwn,
 15 PAIRS 65.42% 519 BP

 1 Afro-Asiatic, Chadic, West, B, B.1, BadeProper, bde
 1 Afro-Asiatic, Chadic, West, B, B.1, BadeProper, ngi
 1 PAIRS 37.57% 1363 BP

 7 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, Karekare
 7 PAIRS 17.91% 2491 BP

 1 Afro-Asiatic, Chadic, West, A, A.2, Tangale, Dera
 2 Afro-Asiatic, Chadic, West, A, A.2, Tangale, TangaleProper
 2 PAIRS 14.18% 2846 BP

 2 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, zua
 1 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, gji
 3 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, plj
 1 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, say
 17 PAIRS 21.12% 2240 BP

1 Afro-Asiatic,Chadic,West,A,A.1,hau,
 1 Afro-Asiatic,Chadic,West,A,A.1,hau,
 1 Afro-Asiatic,Chadic,West,A,A.1,hau,
 3 PAIRS 77.67% 258 BP

3 Indo-European,Germanic,West,HighGerman,German,UpperGerman,Alemannic
 1 Indo-European,Germanic,West,HighGerman,German,UpperGerman,Bavarian-Austrian
 3 PAIRS 30.48% 1682 BP

1 Indo-European,Germanic,West,LowSaxon-LowFranconian,LowFranconian,nld,
 1 Indo-European,Germanic,West,LowSaxon-LowFranconian,LowFranconian,nld,
 1 PAIRS 55.31% 775 BP

1 Indo-European,Germanic,West,LowSaxon-LowFranconian,LowFranconian,vls,
 1 Indo-European,Germanic,West,LowSaxon-LowFranconian,LowFranconian,vls,
 1 PAIRS 71.21% 390 BP

2 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,WestMiddleGerman
 2 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,EastMiddleGerman
 4 PAIRS 50.34% 918 BP

13 Indo-European,Indo-Iranian,Indo-Aryan,Centralzone,Rajasthani,Unclassified,gju
 1 Indo-European,Indo-Iranian,Indo-Aryan,Centralzone,Rajasthani,Unclassified,lmn
 13 PAIRS 33.63% 1532 BP

3 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Dardic,Shina,phl
 1 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Dardic,Shina,sgd
 1 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Dardic,Shina,ush
 7 PAIRS 46.60% 1035 BP

1 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Lahnda,hnd,
 1 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Lahnda,hnd,
 1 Indo-European,Indo-Iranian,Indo-Aryan,Northwesternzone,Lahnda,hnd,

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hnd,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hnd,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hnd,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hnd,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hnd,
 28 PAIRS 68.90% 440 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Lahnda, hno,
 15 PAIRS 69.19% 434 BP

6 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc
 1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmf
 3 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rml
 1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmo
 1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmw
 48 PAIRS 60.21% 645 BP

6 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw
 3 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, kls
 18 PAIRS 32.09% 1603 BP

2 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Kunar, dml
 1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Kunar, gwt
 2 PAIRS 35.72% 1440 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, WesternHindi, Hindustani, hin

1 Indo-European, Indo-Iranian, Indo-
Aryan, Centralzone, WesternHindi, Hindustani, urd
1 PAIRS 52.41% 856 BP

1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Dardic, Kohistani, gwc
1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Dardic, Kohistani, xka
1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Dardic, Kohistani, mvy
1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Dardic, Kohistani, trw
6 PAIRS 43.72% 1132 BP

1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Lahnda, pnb,
1 Indo-European, Indo-Iranian, Indo-
Aryan, Northwesternzone, Lahnda, pnb,
1 PAIRS 95.90% -62 BP

25 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbu
5 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst
5 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, wne
310 PAIRS 59.70% 658 BP

5 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, mnj
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, Shugni-Yazgulami
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, ydg
18 PAIRS 22.72% 2129 BP

1 Indo-European, Indo-
Iranian, Iranian, Western, Southwestern, Persian, prs
1 Indo-European, Indo-
Iranian, Iranian, Western, Southwestern, Persian, pes
1 Indo-European, Indo-
Iranian, Iranian, Western, Southwestern, Persian, tgk
3 PAIRS 54.17% 806 BP

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Northeastern, oss,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Northeastern, oss,

1 PAIRS 50.19% 922 BP

4 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance

5 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance

20 PAIRS 25.54% 1951 BP

1 Altaic, Tungusic, Southern, Southeast, Nanaj, gld,

1 Altaic, Tungusic, Southern, Southeast, Nanaj, gld,

1 Altaic, Tungusic, Southern, Southeast, Nanaj, gld,

1 Altaic, Tungusic, Southern, Southeast, Nanaj, gld,

6 PAIRS 56.02% 755 BP

1 Dravidian, South-Central, Gondi-Kui, Konda-Kui, Manda-Kui, Kui-Kuvi, kxu

1 Dravidian, South-Central, Gondi-Kui, Konda-Kui, Manda-Kui, Kui-Kuvi, kxv

1 PAIRS 35.97% 1429 BP

1 Dravidian, Southern, Tamil-Kannada, Tamil-Kodagu, Toda-Kota, kfe,

1 Dravidian, Southern, Tamil-Kannada, Tamil-Kodagu, Toda-Kota, kfe,

1 PAIRS 52.13% 865 BP

1 Dravidian, Southern, Tamil-Kannada, Tamil-Kodagu, Tamil-Malayalam, Malayalam, mal

1 Dravidian, Southern, Tamil-Kannada, Tamil-Kodagu, Tamil-Malayalam, Malayalam, yea

1 PAIRS 43.50% 1140 BP

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Koch, aot

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Koch, rah

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Koch, kdq

3 PAIRS 44.64% 1101 BP

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Konyak, nbc,

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Konyak, nbc,

1 PAIRS 79.88% 215 BP

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Bodo, der

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Bodo, dis

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Bodo, trp

1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Bodo, xac
 1 Sino-Tibetan, Tibeto-Burman, Jingpho-Konyak-Bodo, Konyak-Bodo-Garo, Bodo-Garo, Bodo, lax
 10 PAIRS 30.83% 1664 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Sunwari, bhj
 2 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Sunwari, suz
 2 PAIRS 27.10% 1861 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Almora, bee
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Almora, drd
 1 PAIRS 23.22% 2095 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, chx
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, gvr
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, ggn
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, nmm
 2 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, ths
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, taj
 20 PAIRS 34.59% 1489 BP

11 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western
 2 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Southern
 5 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Northern
 105 PAIRS 30.27% 1692 BP

2 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, dus
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, jee
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, klr
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, tdh
 1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, wme

14 PAIRS 25.19% 1972 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Kanauri, kzq

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, WesternHimalayish, Kanauri, kfk

1 PAIRS 12.05% 3094 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepang-Sunwari, Kham, kgj

2 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepang-Sunwari, Kham, kjl

2 PAIRS 74.50% 321 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, kle

2 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, lif

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, pum

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, ybh

9 PAIRS 28.15% 1803 BP

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, jiu,

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, jiu,

1 PAIRS 79.45% 223 BP

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, ywt,

1 Sino-Tibetan, Tibeto-Burman, Burmic, Ngwi, Central, ywt,

1 PAIRS 40.51% 1249 BP

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Southern, Phunoi, mpz

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Southern, Phunoi, pho

1 PAIRS 10.66% 3281 BP

7 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest

11 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral

2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Lao-Phutai

113 PAIRS 59.94% 652 BP

2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, yoy

3 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, pcc

2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, zyb

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, zgn

23 PAIRS 58.87% 679 BP

8 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj
 3 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, nut
 2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, tyz
 46 PAIRS 54.55% 796 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Sek, skb,
 1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Sek, skb,
 1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Sek, skb,
 3 PAIRS 77.67% 258 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, CentralBahnaric, bdq,
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, CentralBahnaric, bdq,
 1 PAIRS 75.53% 300 BP

5 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Sre-Mnong, Mnong
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Sre-Mnong, Sre
 5 PAIRS 46.91% 1025 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Oi-The, jeg
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Oi-The, oyb
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, WestBahnaric, Oi-The, spu
 3 PAIRS 74.12% 329 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Stieng-Chrau, crw
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, SouthBahnaric, Stieng-Chrau, sti
 1 PAIRS 47.51% 1006 BP

2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, NorthBahnaric, West, Jeh-Halang
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, NorthBahnaric, West, Rengao
 2 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Bahnaric, NorthBahnaric, West, Sedang-Todrah
 8 PAIRS 39.44% 1289 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Katuic, WestKatuic, Brou-So, bru
 1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Katuic, WestKatuic, Brou-So, brv
 1 PAIRS 70.37% 408 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-
 Khmer, Katuic, EastKatuic, Katu-Pacoh, phg

1 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Katuic, EastKatuic, Katu-Pacoh, ktv

1 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Katuic, EastKatuic, Katu-Pacoh, pac

3 PAIRS 46.54% 1037 BP

1 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Pearic, Eastern, pcb,

1 Austro-Asiatic, Mon-Khmer, EasternMon-Khmer, Pearic, Eastern, pcb,

1 PAIRS 34.38% 1498 BP

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, mjsx,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, mjsx,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, mjsx,

3 PAIRS 93.20% -19 BP

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Santali, sat,

28 PAIRS 88.15% 65 BP

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Mundari, unr,

1 Austro-Asiatic, Munda, NorthMunda, Kherwari, Mundari, unr,

1 PAIRS 94.84% -45 BP

2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Palaungic, EasternPalaungic, Waic, Bulang

2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Palaungic, EasternPalaungic, Waic, Lawa

3 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Palaungic, EasternPalaungic, Waic, Wa

16 PAIRS 36.90% 1390 BP

2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Palaungic, WesternPalaungic, Palaung, pce

2 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Palaungic, WesternPalaungic, Palaung, rbb

4 PAIRS 43.45% 1142 BP

1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, XinhMul, puo,

1 Austro-Asiatic, Mon-Khmer, NorthernMon-Khmer, Khmuic, XinhMul, puo,

1 PAIRS 93.70% -27 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Central-South, South, duq
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Central-South, South, duw
2 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Central-South, South, mhy
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Central-South, South, pku
9 PAIRS 64.98% 529 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, West, South, nij,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, West, South, nij,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, West, South, nij,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, West, South, nij,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, West, South, nij,
10 PAIRS 65.71% 512 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, plt,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, plt,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, plt,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, plt,
6 PAIRS 81.98% 175 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, bjg,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, bjg,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, bjg,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, bjg,
6 PAIRS 73.26% 347 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, tdx,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, tdx,
1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, tdx,
3 PAIRS 72.25% 368 BP

1 Austronesian, Malayo-
Polynesian, GreaterBarito, East, Malagasy, skg,

1 Austronesian, Malayo-Polynesian, GreaterBarito, East, Malagasy, skg,
 1 Austronesian, Malayo-Polynesian, GreaterBarito, East, Malagasy, skg,
 3 PAIRS 71.22% 390 BP

1 Austronesian, Malayo-Polynesian, GreaterBarito, West, North, sya,
 1 Austronesian, Malayo-Polynesian, GreaterBarito, West, North, sya,
 1 PAIRS 76.96% 272 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata, aol
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata, ksx
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata, slp
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata, lmr
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Flores-Lembata, ski
 18 PAIRS 37.67% 1359 BP

28 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram
 4 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Banda-Geser
 112 PAIRS 25.82% 1934 BP

6 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, North
 7 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East
 3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, West
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, Central
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, tve
 114 PAIRS 33.40% 1542 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba,
 1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba,
 1 PAIRS 80.43% 205 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, Masela-SouthBabar
 3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, SouthwestBabar

12 PAIRS 31.32% 1640 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, North, dij

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, North, ddw

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, North, bcd

3 PAIRS 35.16% 1464 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, Ende-Lio, end

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, Ende-Lio, ljl

1 PAIRS 61.99% 601 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Kei-Tanimbar, Kei-Fordata

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Kei-Tanimbar, Yamdena

2 PAIRS 31.45% 1634 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, xbr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, xbr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, xbr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Bima-Sumba, xbr,

6 PAIRS 59.00% 676 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Ramelaic, West

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Ramelaic, Central

2 PAIRS 36.43% 1410 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, oni,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, oni,

1 PAIRS 95.76% -60 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, skz,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, NorthBomberai, skz,

1 PAIRS 59.89% 653 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic, Muller-Schwaner' Punan'

2 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic, Modang

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic, KayanProper

5 PAIRS 18.91% 2408 BP

8 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, bjn

2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, pse

2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, xdy

3 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, ind

2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, kvr

2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, zlm

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, mfb

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, min

196 PAIRS 54.21% 805 BP

3 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, Chru-Northern

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, rad

3 PAIRS 32.55% 1581 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, West

4 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South

6 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, Central

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, Cebuan

56 PAIRS 56.16% 751 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, bya,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, bya,
1 PAIRS 83.94% 140 BP

5 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bikol, Inland

4 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bikol, Coastal

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bikol, Pandan
29 PAIRS 68.61% 446 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, tgt,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, tgt,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Palawanic, tgt,
3 PAIRS 59.24% 670 BP

5 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western

5 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Eastern
25 PAIRS 78.41% 243 BP

8 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Ibanagic

2 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Isnag
16 PAIRS 57.97% 703 BP

15 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran

12 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, SouthernCordilleran
180 PAIRS 37.82% 1353 BP

1 Austronesian, Malayo-
Polynesian, Philippine, Bashiiic, Ivatan, ivv,

1 Austronesian, Malayo-
Polynesian, Philippine, Bashiiic, Ivatan, ivv,

1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
1 Austronesian, Malayo-
Polynesian, Philippine, Bashiic, Ivatan, ivv,
36 PAIRS 60.70% 633 BP

1 Austronesian, Malayo-
Polynesian, Philippine, CentralLuzon, Sambalic, sbl,
1 Austronesian, Malayo-
Polynesian, Philippine, CentralLuzon, Sambalic, sbl,
1 PAIRS 93.34% -21 BP

36 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, NorthNewGuinea
59 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, MesoMelanesian
29 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip
4879 PAIRS 9.43% 3467 BP

222 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic
46 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, SoutheastSolomonic
15 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, SouthVanuatu
14232 PAIRS 14.99% 2762 BP

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Utupua-Vanikoro
7 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Reefs-SantaCruz
14 PAIRS 7.36% 3844 BP

8 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Western
16 PAIRS 16.10% 2653 BP

17 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl

1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, sjm

17 PAIRS 40.88% 1235 BP

1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, InnerSuluSama, sse

2 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, InnerSuluSama, sml

2 PAIRS 85.93% 104 BP

28 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, WestNewGuinea, CenderawasihBay

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, WestNewGuinea, Bomberai

56 PAIRS 6.77% 3972 BP

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, SouthHalmahera, Southeast

10 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, SouthHalmahera, EastMakian-Gane

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, SouthHalmahera, irh

32 PAIRS 21.79% 2193 BP

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Blaan, bpr,

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Blaan, bpr,

1 PAIRS 86.55% 93 BP

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Blaan, bps,

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Blaan, bps,

1 PAIRS 85.15% 118 BP

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Tboli, tbl,

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Tboli, tbl,

1 Austronesian, Malayo-
Polynesian, Philippine, Bilic, Tboli, tbl,
3 PAIRS 86.97% 86 BP

2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, North, bkd
1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, North, cgc
2 PAIRS 54.88% 786 BP

2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, sy
b
2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, su
c
4 PAIRS 69.97% 417 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Danao, Maranao-
Iranon, ill
1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Danao, Maranao-
Iranon, mrw
1 PAIRS 65.26% 523 BP

4 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, Sou
th
2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, Eas
t
5 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, Wes
t
38 PAIRS 57.38% 718 BP

2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mta
2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mbs
4 PAIRS 58.15% 698 BP

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, bls
1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, dms
1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, ums
2 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, pee

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Southern, tdj

14 PAIRS 52.05% 867 BP

18 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, Nuclear Muna-Buton

3 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, Tukangbesi-Bonerate

54 PAIRS 44.84% 1094 BP

1 Austronesian, Malayo-Polynesian, Philippine, Greater Central Philippine, Gorontalo-Mongondow, Gorontalo, blf

1 Austronesian, Malayo-Polynesian, Philippine, Greater Central Philippine, Gorontalo-Mongondow, Gorontalo, gor

1 Austronesian, Malayo-Polynesian, Philippine, Greater Central Philippine, Gorontalo-Mongondow, Gorontalo, kzp

3 PAIRS 38.12% 1341 BP

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Northern, dok

2 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Northern, law

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-Tolitoli, Tomini, Northern, txm

5 PAIRS 71.36% 387 BP

13 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Western

9 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Eastern

117 PAIRS 50.56% 911 BP

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern, snl,

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern, snl,

1 PAIRS 89.74% 38 BP

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern, sxn,

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern, sxn,

1 Austronesian, Malayo-Polynesian, Philippine, Sangiric, Northern, sxn,

3 PAIRS 86.21% 99 BP

1 Austronesian, Malayo-
 Polynesian, Philippine, Minahasan, North, Northeast, tom
 1 Austronesian, Malayo-
 Polynesian, Philippine, Minahasan, North, Northeast, tdn
 1 Austronesian, Malayo-
 Polynesian, Philippine, Minahasan, North, Northeast, txs
 3 PAIRS 72.91% 354 BP

1 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran, sks,
 1 Trans-NewGuinea, Madang, Croisilles, Pihom, Kaukombaran, sks,
 1 PAIRS 47.56% 1004 BP

1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, abz,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, abz,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, abz,
 3 PAIRS 19.21% 2384 BP

1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Pantar, beu,
 15 PAIRS 53.47% 826 BP

1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, klz,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, klz,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, klz,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, klz,
 6 PAIRS 45.39% 1075 BP

1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, woi,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, woi,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, woi,
 1 Trans-NewGuinea, West, WestTimor-Alor-Pantar, Alor-
 Pantar, Alor, woi,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Alor,woi,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Alor,woi,

15 PAIRS 43.63% 1135 BP

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Alor,kyo,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Alor,kyo,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Alor,kyo,

3 PAIRS 50.17% 923 BP

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,lev,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,lev,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,lev,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,lev,

6 PAIRS 53.31% 831 BP

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,twe,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,twe,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,twe,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,twe,

1 Trans-NewGuinea,West,WestTimor-Alor-Pantar,Alor-Pantar,Pantar,twe,

10 PAIRS 47.75% 998 BP

1 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Canadian,Hare-Chipewyan,Chipewyan

1 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Canadian,Hare-Chipewyan,Hare-Slavey

1 PAIRS 30.08% 1701 BP

4 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Apachean,Navajo-Apache,EasternApache

3 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,Apachean,Navajo-Apache,WesternApache-Navajo

12 PAIRS 57.40% 718 BP

2 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,PacificCoast,California,Hupa

2 Na-Dene,NuclearNa-Dene,Athapaskan-Eyak,Athapaskan,PacificCoast,California,Mattole-Wailaki

4 PAIRS 41.03% 1229 BP

1 Siouan, Siouan Proper, Central, Mississippi Valley, Dakota, lkt,

1 Siouan, Siouan Proper, Central, Mississippi Valley, Dakota, lkt,

1 PAIRS 62.03% 600 BP

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec, azz,

15 PAIRS 46.49% 1039 BP

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, Southern Uto-Aztecan, Aztecan, General Aztec, Aztec,

1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nln,

1 Uto-Aztecan, SouthernUto-Aztecan, Aztecan, GeneralAztec, Aztec, nln,

1 PAIRS 67.26% 477 BP

1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Tarahumaran, Guarijio, var,

1 Uto-Aztecan, SouthernUto-Aztecan, Sonoran, Tarahumaran, Guarijio, var,

1 PAIRS 59.50% 663 BP

1 Penutian, Yok-Utian, Utian, Miwokan, Eastern, Sierra, csm

1 Penutian, Yok-Utian, Utian, Miwokan, Eastern, Sierra, nsq

1 Penutian, Yok-Utian, Utian, Miwokan, Eastern, Sierra, skd

3 PAIRS 55.00% 783 BP

1 Penutian, Yok-Utian, Utian, Miwokan, Western, csi,

1 Penutian, Yok-Utian, Utian, Miwokan, Western, csi,

1 PAIRS 51.55% 882 BP

1

Hokan, Northern, Pomo, RussianRiverandEastern, RussianRiver, Southern, poo

1

Hokan, Northern, Pomo, RussianRiverandEastern, RussianRiver, Southern, kju

1

Hokan, Northern, Pomo, RussianRiverandEastern, RussianRiver, Southern, peq

3 PAIRS 51.90% 871 BP

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, quc,

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, quc,

1 PAIRS 76.43% 282 BP

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel, ckc,

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Cakchiquel, ckc,

1 PAIRS 90.71% 22 BP

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Tzutujil, tzj,

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Tzutujil, tzj,

1 PAIRS 77.85% 254 BP

1 Mayan, Quichean-Mamean, GreaterQuichean, Quichean, Quiche-Achi, qut,

1 Mayan,Quichean-Mamean,GreaterQuichean,Quichean,Quiche-
Achi,qut,

1 Mayan,Quichean-Mamean,GreaterQuichean,Quichean,Quiche-
Achi,qut,

3 PAIRS 87.36% 79 BP

1 Macro-Ge,Ge-Kaingang,Ge,Central,Acua,xav,

1 Macro-Ge,Ge-Kaingang,Ge,Central,Acua,xav,

1 PAIRS 41.86% 1198 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 7

S0 = 92%, R = .72

4 Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Adamawa,Leko-Nimbari,Mumuye-Yandang

2 Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Adamawa,Leko-Nimbari,Duru

8 PAIRS 8.91% 3553 BP

7 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Beboid,Western

7 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Beboid,Eastern

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Beboid,jms

63 PAIRS 10.01% 3376 BP

3 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Tivoid,btu

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Tivoid,myg

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Tivoid,ags

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Tivoid,ass

2 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Tivoid,tiv

24 PAIRS 10.79% 3262 BP

38 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,WideGrassfields,NarrowGrassfields

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,WideGrassfields,WesternMomo

1 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,WideGrassfields,Menchum

77 PAIRS 9.37% 3476 BP

3 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Mbam,West (A.60)

3 Niger-Congo,Atlantic-Congo,Volta-Congo,Benue-
Congo,Bantoid,Southern,Mbam,West (A.40)

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A. 60)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Sanaga (A. 60)

50 PAIRS 16.25% 2639 BP

73 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest

67 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central

4891 PAIRS 7.68% 3780 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, nbb

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, etu

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, ofu

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, eka

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, ndd

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, isi

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, nbp

60 PAIRS 42.33% 1181 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, ken

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, anv

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, kvm

24 PAIRS 24.99% 1984 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute

16 PAIRS 10.44% 3312 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, CentralDelta, Abua-Odual

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, CentralDelta, ugu

1 PAIRS 33.06% 1558 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, Ogoni, West

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, Ogoni, East

2 PAIRS 36.70% 1399 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Ben-Gban, nhb,
1 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Ben-Gban, nhb,
1 PAIRS 60.63% 635 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Tura-Dan-Mano, Tura-Dan, neb
1 Niger-Congo, Mande, Eastern, Southeastern, Guro-Tura, Tura-Dan-Mano, Tura-Dan, daf
1 PAIRS 46.61% 1035 BP

1 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Wan-Mwan, wan,
1 Niger-Congo, Mande, Eastern, Southeastern, Nwa-Ben, Wan-Mwan, wan,
1 PAIRS 61.11% 623 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, ema
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, bin
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, ibi
8 PAIRS 35.53% 1448 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee, ets
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee, aaa
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee, une
5 PAIRS 55.66% 765 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, deg,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, deg,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, deg,
3 PAIRS 55.22% 777 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, enn,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, enn,
1 PAIRS 49.78% 935 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Osse, eh

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Osse, uha

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Osse, uku

3 PAIRS 52.44% 855 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, epi,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Delta, epi,

1 PAIRS 47.15% 1018 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, urh,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Southwestern, urh,

1 PAIRS 37.05% 1385 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Senufo, Suppire-Mamara, myk

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Senufo, Suppire-Mamara, spp

1 PAIRS 51.28% 889 BP

2 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Ebang-Laru, hbn

1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Ebang-Laru, lro

2 PAIRS 49.18% 953 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Igbo, ibo,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Igbo, Igbo, ibo,

1 PAIRS 42.46% 1177 BP

1 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, Eastern, Northeastern, Ibani-Okrika-Kalabari, iby

1 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, Eastern, Northeastern, Ibani-Okrika-Kalabari, ijn

1 Niger-Congo, Atlantic-Congo, Ijoid, Ijo, Eastern, Northeastern, Ibani-Okrika-Kalabari, okr

3 PAIRS 61.51% 613 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, awc

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, png

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, rod

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, acp

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, sqa

44 PAIRS 20.41% 2292 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Duka, dud

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Duka, gel

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Duka, dri

5 PAIRS 22.29% 2158 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, KainjiLake, lan

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, KainjiLake, lop

1 PAIRS 17.98% 2485 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kambari, tsw

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kambari, tvd

1 PAIRS 40.46% 1250 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central

11 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang

55 PAIRS 14.82% 2779 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Lelemi-Akpafu

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Likpe-Santrokofi

6 PAIRS 20.42% 2291 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fulani-Wolof, Fula, Western

2 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fulani-Wolof, Fula, WestCentral

2 PAIRS 48.65% 970 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel, mfv,

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Manjaku-Papel, mfv,

1 PAIRS 77.65% 258 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, B

17 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A

51 PAIRS 7.21% 3875 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic, bom,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Beromic, bom,

1 PAIRS 57.43% 717 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, South-Central, gne

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Central, South-Central, izr

1 PAIRS 40.40% 1252 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern, Hyamic

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern, Koro

3 PAIRS 20.84% 2260 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne, Baga, bcg

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne, Baga, bmd

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Temne, Baga, ldm

3 PAIRS 37.96% 1347 BP

2 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Bullom, Southern

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Bullom, Northern

2 PAIRS 55.49% 769 BP

12 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Sere

12 PAIRS 9.95% 3386 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Barambo-Pambia

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Zande-Nzakara

4 PAIRS 14.12% 2853 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, Southwest

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, Central

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, Northwest

3 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, East

12 PAIRS 44.16% 1117 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, Central

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, WestCentral

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, SouthCentral

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, Southern

17 PAIRS 41.31% 1219 BP

30 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole

2 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Vai-Kono

60 PAIRS 31.55% 1629 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Mende-Loma, Mende-Bandi, Bandi

1 Niger-Congo, Mande, Western, Central-Southwestern, Southwestern, Mende-Loma, Mende-Bandi, Mende-Loko

1 PAIRS 64.09% 550 BP

2 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Boso, Eastern

1 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Boso, Jenaama

2 PAIRS 33.65% 1531 BP

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, bjv

2 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, SaraKaba

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, ksp

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, myb

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, sba

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, mwm

20 PAIRS 52.64% 850 BP

6 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban

1 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-
Burun, Burun
6 PAIRS 8.44% 3636 BP

3 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-
Acholi, Alur-Acholi
1 Nilo-
Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-
Acholi, Luo
3 PAIRS 68.56% 448 BP

2 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Ongamo-Maa, saq
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Ongamo-Maa, mas
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Ongamo-Maa, nsg
5 PAIRS 54.11% 808 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Lotuxo, ddd
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Lotuxo-Maa, Lotuxo, lky
1 PAIRS 37.87% 1351 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Teso-Turkana, Turkana, kdj
2 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Teso-Turkana, Turkana, nnj
1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-
Teso, Teso-Turkana, Turkana, tuv
5 PAIRS 39.18% 1299 BP

1 Nilo-
Saharan, EasternSudanic, Eastern, Surmic, South, Southeast, Pastoral, Me
'en
2 Nilo-
Saharan, EasternSudanic, Eastern, Surmic, South, Southeast, Pastoral, Su
ri
2 PAIRS 37.38% 1371 BP

1 Afro-Asiatic, Chadic, Biu-
Mandara, A, A.4, MandaraProper, Glavda, cie
1 Afro-Asiatic, Chadic, Biu-
Mandara, A, A.4, MandaraProper, Glavda, dgh
1 Afro-Asiatic, Chadic, Biu-
Mandara, A, A.4, MandaraProper, Glavda, gdf
1 Afro-Asiatic, Chadic, Biu-
Mandara, A, A.4, MandaraProper, Glavda, glw
6 PAIRS 34.86% 1477 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Eastern,gqa,
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Eastern,gqa,
 1 PAIRS 55.24% 776 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,mfm,
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,mfm,
 1 PAIRS 67.66% 468 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,hbb,
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.2,2,hbb,
 1 PAIRS 72.64% 360 BP

1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Western,ttr,
 1 Afro-Asiatic,Chadic,Biu-Mandara,A,A.1,Western,ttr,
 1 PAIRS 47.31% 1012 BP

1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gimojan,Ometo-
 Gimira,Ometo,West
 6 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gimojan,Ometo-
 Gimira,Ometo,Central
 5 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gimojan,Ometo-
 Gimira,Ometo,East
 1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gimojan,Ometo-
 Gimira,Ometo,mdy
 53 PAIRS 34.93% 1474 BP

1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gonga,South,moy,
 1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gonga,South,moy,
 1 PAIRS 56.52% 741 BP

1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gonga,North,bwo,
 1 Afro-Asiatic,Omotic,North,Gonga-Gimojan,Gonga,North,bwo,
 1 PAIRS 64.31% 545 BP

2 Afro-
 Asiatic,Semitic,South,Ethiopian,South,Transversal,Amharic-
 Argobba,amh
 1 Afro-
 Asiatic,Semitic,South,Ethiopian,South,Transversal,Amharic-
 Argobba,agj
 2 PAIRS 37.32% 1373 BP

1 Afro-
 Asiatic,Semitic,Central,Aramaic,Eastern,Central,Northeastern,cld
 1 Afro-
 Asiatic,Semitic,Central,Aramaic,Eastern,Central,Northeastern,hrt
 1 PAIRS 49.65% 939 BP

2 Afro-Asiatic,Semitic,South,Ethiopian,South,Outer,tt-
 Group,sgw

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, ior
 2 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, mys
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, mvz
 13 PAIRS 33.64% 1531 BP

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, n-Group, gft
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, n-Group, gru
 1 PAIRS 31.57% 1628 BP

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal, Harari-EastGurage, har
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal, Harari-EastGurage, wle
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal, Harari-EastGurage, zwa
 3 PAIRS 37.28% 1375 BP

1 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Mandaic, mid,
 1 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Mandaic, mid,
 1 PAIRS 70.73% 400 BP

1 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Central, Northwestern, lhs
 1 Afro-Asiatic, Semitic, Central, Aramaic, Eastern, Central, Northwestern, tru
 1 PAIRS 53.84% 815 BP

1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, anc
 1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, kwl
 1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, mjs
 2 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, sur
 9 PAIRS 53.26% 832 BP

1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, bol
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, glo
 2 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, gew
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, gea
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, kks
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, nbh
 20 PAIRS 26.46% 1897 BP

1 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, zua,
 1 Afro-Asiatic, Chadic, West, B, B.3, ZaarProper, zua,
 1 PAIRS 90.21% 30 BP

1 Afro-Asiatic,Chadic,West,A,A.2,Tangale,TangaleProper,pip
 1 Afro-Asiatic,Chadic,West,A,A.2,Tangale,TangaleProper,tan
 1 PAIRS 26.55% 1891 BP

1 Afro-Asiatic,Chadic,West,B,B.3,ZaarProper,plj,
 1 Afro-Asiatic,Chadic,West,B,B.3,ZaarProper,plj,
 1 Afro-Asiatic,Chadic,West,B,B.3,ZaarProper,plj,
 3 PAIRS 31.85% 1615 BP

2 Indo-European,Germanic,West,HighGerman,German,UpperGerman,Alemannic,gs
 w

1 Indo-European,Germanic,West,HighGerman,German,UpperGerman,Alemannic,sw
 g

2 PAIRS 45.81% 1061 BP

1 Indo-European,Germanic,North,EastScandinavian,Danish-Swedish,Swedish,swe,
 1 Indo-European,Germanic,North,EastScandinavian,Danish-Swedish,Swedish,swe,
 1 PAIRS 49.12% 955 BP

1 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,WestMiddleGerman,RhenischFranconian

1 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,WestMiddleGerman,MoselleFranconian

1 PAIRS 53.86% 815 BP

1 Indo-European,Germanic,North,EastScandinavian,Danish-Swedish,Danish-Bokmal,nor,
 1 Indo-European,Germanic,North,EastScandinavian,Danish-Swedish,Danish-Bokmal,nor,
 1 PAIRS 50.54% 912 BP

1 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,EastMiddleGerman,sxu

1 Indo-European,Germanic,West,HighGerman,German,MiddleGerman,EastMiddleGerman,deu

1 PAIRS 59.28% 669 BP

1 Indo-European,Indo-Iranian,Indo-Aryan,Centralzone,Rajasthani,Unclassified,gju,
 1 Indo-European,Indo-Iranian,Indo-Aryan,Centralzone,Rajasthani,Unclassified,gju,
 1 Indo-European,Indo-Iranian,Indo-Aryan,Centralzone,Rajasthani,Unclassified,gju,

[illegible]

1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Balkan, rmn,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Balkan, rmn,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Balkan, rmn,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Balkan, rmn,
21 PAIRS 71.00% 394 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
1 Indo-European, Indo-Iranian, Indo-Aryan, Centralzone, Romani, Northern, rmc,
15 PAIRS 68.07% 458 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, khw,
15 PAIRS 89.76% 38 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Kunar, dml,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Kunar, dml,
1 PAIRS 53.05% 838 BP

1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, kls,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, kls,
1 Indo-European, Indo-Iranian, Indo-Aryan, Northwesternzone, Dardic, Chitral, kls,
3 PAIRS 78.61% 239 BP

1 Indo-European, Indo-Iranian, Indo-
Aryan, Centralzone, Romani, Northern, rml,

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbu,

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbu,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbu,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbu,
300 PAIRS 70.88% 397 BP

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pst,
10 PAIRS 68.72% 444 BP

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pamir, wbl,
10 PAIRS 88.40% 61 BP

1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt,
1 Indo-European, Indo-
Iranian, Iranian, Eastern, Southeastern, Pashto, pbt,
10 PAIRS 79.23% 227 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-
Iberian, Ibero-Romance, EastIberian
4 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-
Iberian, Ibero-Romance, WestIberian
4 PAIRS 29.05% 1755 BP

9 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-
Kanauri, Tibetic, Tibetan, Western, bft

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, Ladakhi

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, prx

19 PAIRS 26.81% 1877 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, dus,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Western, dus,

1 PAIRS 69.28% 432 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Southern, jul

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Southern, xsr

1 PAIRS 51.79% 875 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Kham, kjl,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Kham, kjl,

1 PAIRS 62.54% 587 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, kgy

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, loy

3 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, bod

7 PAIRS 48.55% 973 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, lif,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kiranti, Eastern, lif,

1 PAIRS 65.92% 507 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, ths,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tamangic, ths,

1 PAIRS 57.15% 725 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Sunwari, suz,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Mahakiranti, Kham-Magar-Chepeng-Sunwari, Sunwari, suz,

1 PAIRS 57.14% 725 BP

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Northern, Lisu, lis,

1 Sino-Tibetan, Tibeto-Burman, Lolo-Burmese, Loloish, Northern, Lisu, lis,

1 PAIRS 46.07% 1053 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, aho

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, tdd

3 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, khb

2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, shn

17 PAIRS 57.65% 712 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, yoy,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, yoy,

1 PAIRS 71.10% 392 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, zzj,

28 PAIRS 62.83% 580 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, nut,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, nut,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, nut,

3 PAIRS 55.47% 770 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, pcc,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, pcc,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, pcc,

3 PAIRS 71.81% 377 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, zyb,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Northern, zyb,

1 PAIRS 70.67% 401 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, tyz,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Central, tyz,

1 PAIRS 61.65% 609 BP

2 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Southern-Central Mnong

3 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Eastern Mnong

6 PAIRS 67.99% 460 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, WestBahnaric, Laven, lbo,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, WestBahnaric, Laven, lbo,

1 PAIRS 74.01% 331 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, WestBahnaric, Nyaheun, nev,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, WestBahnaric, Nyaheun, nev,

1 PAIRS 89.75% 38 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, NorthBahnaric, West, Sedang-Todrah, Sedang

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, NorthBahnaric, West, Sedang-Todrah, Todrah-Monom

1 PAIRS 46.55% 1037 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, WestKatuic, Kuay-Nheu, kdt,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, WestKatuic, Kuay-Nheu, kdt,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Katuic, WestKatuic, Kuay-Nheu, kdt,

3 PAIRS 67.18% 479 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Pearic, Western, Chong, cog,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Pearic, Western, Chong, cog,

1 PAIRS 51.15% 894 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, WesternPalaungic, Danau, dnu,

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, WesternPalaungic, Danau, dnu,

1 PAIRS 87.54% 76 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, WesternPalaungic, Palaung, pce,

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, WesternPalaungic, Palaung, pce,

1 PAIRS 69.81% 420 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khmuic, Mal-Khmu', Khmu', kjg,

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Khmuic, Mal-Khmu', Khmu', kjg,

1 PAIRS 61.25% 619 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Lawa, lcp

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Lawa, lwl

1 PAIRS 20.63% 2276 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Palaung, rbb,

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Palaung, rbb,

1 PAIRS 35.95% 1430 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Rieng, ril,

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Western Palaungic, Rieng, ril,

1 PAIRS 77.41% 263 BP

1 Austronesian, Malayo-Polynesian, Greater Barito, East, Central-South, South, mhy,

1 Austronesian, Malayo-Polynesian, Greater Barito, East, Central-South, South, mhy,

1 PAIRS 71.50% 384 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Flores-Lembata, aol,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Flores-Lembata, aol,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Flores-Lembata, aol,

3 PAIRS 70.65% 402 BP

23 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-

Polynesian, Central Maluku, East, Seram, Nunusaku

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Bobot

3 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-

Polynesian, Central Maluku, East, Seram, Masiwang

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Sawai-Nuaulu

122 PAIRS 24.38% 2021 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Babar, South, Masela-South Babar, mxz

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Babar, South, Masela-South Babar, vme

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, Masela-SouthBabar, sve

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, Masela-SouthBabar, vbb

6 PAIRS 39.48% 1288 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, EastDamar

4 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Teun-Nila-Serua

14 PAIRS 40.49% 1249 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Banda-Geser, bnd

3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Banda-Geser, Geser-Gorom

3 PAIRS 40.63% 1244 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, SouthwestBabar, emw

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, SouthwestBabar, imr

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Babar, South, SouthwestBabar, tvn

3 PAIRS 34.16% 1508 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Kei-Tanimbar, Kei-Fordata, frd

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, SoutheastMaluku, Kei-Tanimbar, Kei-Fordata, kei

1 PAIRS 44.23% 1115 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Ramelaic, West, kem

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Ramelaic, West, tkd

1 PAIRS 52.63% 850 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, West, twu

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, West, aoz
2 PAIRS 34.10% 1511 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic, Modang, mxd
1 Austronesian, Malayo-Polynesian, NorthBorneo, NorthSarawakan, Kayan-Kenyah, Kayanic, Modang, sge
1 PAIRS 37.25% 1376 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, pse,
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, pse,
1 PAIRS 74.15% 328 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Coastal, Cham, cjm
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Coastal, Cham, cja
1 PAIRS 55.06% 781 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, Chru-Northern, cje
2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, Chru-Northern, NorthernCham
2 PAIRS 37.79% 1354 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, xdy,
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, xdy,
1 PAIRS 62.00% 601 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, ind,
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, ind,
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, ind,
3 PAIRS 66.18% 501 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, kvr,
1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, kvr,
1 PAIRS 47.70% 1000 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, zlm,

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, zlm,

1 PAIRS 73.16% 349 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, West, Aklan

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, West, Kinarayan

1 PAIRS 65.67% 513 BP

4 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Buhi-Daraga

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Iriga

4 PAIRS 85.13% 118 BP

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South, Butuan-Tausug

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South, Surigao

3 PAIRS 58.27% 695 BP

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, Central, Peripheral

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, Central, Warayan

9 PAIRS 67.90% 462 BP

3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Coastal, Naga

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Coastal, Virac

3 PAIRS 79.90% 215 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan, Western, kqe

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan, Western, klg

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western, kll

8 PAIRS 83.98% 139 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mamanwa, mmn,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mamanwa, mmn,

1 PAIRS 89.65% 39 BP

4 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Eastern, Mandayan

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Eastern, Caraga

4 PAIRS 83.01% 156 BP

4 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Ibanagic, Gaddangic

2 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Ibanagic, att

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Ibanagic, ibg

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanVa
lley, Ibanagic, yog

21 PAIRS 55.54% 768 BP

9 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, SouthernCordilleran, WestSouthernCordilleran

3 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, SouthernCordilleran, Ilongot

27 PAIRS 29.21% 1746 BP

3 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, Northeast
ernLuzon, Northern, dgc

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, Northeast
ernLuzon, Northern, duo

3 PAIRS 48.53% 973 BP

1 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Dusunic, Dusun, Central, dtp
1 Austronesian, Malayo-Polynesian, NorthBorneo, Sabahan, Dusunic, Dusun, Central, kzt
1 PAIRS 69.41% 429 BP

8 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf
19 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz
6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Schouten
3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Sarmi-JayapuraBay
413 PAIRS 9.50% 3455 BP

7 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NewCaledonian
162 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu
35 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific
15 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian
3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, LoyaltyIslands
10766 PAIRS 11.42% 3176 BP

54 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland
4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez
1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Bali-Vitu
274 PAIRS 14.66% 2795 BP

29 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal

17 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal
493 PAIRS 27.33% 1847 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Utupua-
Vanikoro, Utupua

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Utupua-
Vanikoro, tkw

1 PAIRS 11.16% 3211 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Reefs-
SantaCruz, nfl

5 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Reefs-
SantaCruz, stc

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Temotu, Reefs-
SantaCruz, ngr

11 PAIRS 17.92% 2490 BP

15 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear

14 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral

210 PAIRS 11.48% 3168 BP

13 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, SouthVanuatu, Tanna

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, SouthVanuatu, Erromanga

26 PAIRS 10.71% 3273 BP

6 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, AdmiraltyIslands, Eastern, SoutheastIslands

12 PAIRS 29.60% 1726 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, AdmiraltyIslands, Western, ssg

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, AdmiraltyIslands, Western, wuv
1 PAIRS 21.47% 2215 BP

1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, BorneoCoastBajaw, bdl,
136 PAIRS 75.76% 296 BP

1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, InnerSuluSama, sml,
1 Austronesian, Malayo-Polynesian, GreaterBarito, Sama-
Bajaw, Sulu-Borneo, InnerSuluSama, sml,
1 PAIRS 89.16% 48 BP

12 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, SouthHalmahera-
WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen

11 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Biakic

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Mor

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Waropen

254 PAIRS 10.62% 3286 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, Southeast, bzq

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, Southeast, szw

1 PAIRS 39.54% 1285 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, gzn

9 PAIRS 61.54% 612 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, Bomberai, erw

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, Bomberai, bed

1 PAIRS 65.04% 528 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, North, bkd,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, North, bkd,

1 PAIRS 79.98% 213 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, sy b,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, sy b,

1 PAIRS 86.25% 98 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mta,
1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mta,
1 PAIRS 86.85% 88 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbi
3 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbb
6 PAIRS 69.76% 421 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mbs,
1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, South, mbs,
1 PAIRS 85.66% 109 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, su
C,
1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Subanon, Eastern, su
C,
1 PAIRS 97.37% -85 BP

8 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton
10 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan
80 PAIRS 39.44% 1289 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, Tukangbesi-Bonerate, bna
1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, Tukangbesi-Bonerate, khc
1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, Tukangbesi-Bonerate, bhq
3 PAIRS 82.95% 158 BP

10 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Western, WestCoast

3 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, Interior

30 PAIRS 54.32% 802 BP

7 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, East Coast

2 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, Southwest

14 PAIRS 62.26% 594 BP

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Northern, law,

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Northern, law,

1 PAIRS 73.30% 346 BP

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, pee,

1 Austronesian, Malayo-Polynesian, Celebic, Tomini-
Tolitoli, Tomini, Southern, pee,

1 PAIRS 73.25% 347 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, EasternApache, apm

2 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, EasternApache, apj

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, EasternApache, apl

5 PAIRS 59.35% 667 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, California, Mattole-Wailaki, ktw

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, California, Mattole-Wailaki, mvb

1 PAIRS 43.58% 1137 BP

2 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, WesternApache-Navajo, nav

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, WesternApache-Navajo, apw

2 PAIRS 61.75% 607 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 8

S0 = 92%, R = .72

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, Northern

5 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Southern

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Unclassified

39 PAIRS 30.65% 1673 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, mij

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, boe

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, fak

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, kid

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, muc

19 PAIRS 15.77% 2685 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid, btu,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid, btu,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid, btu,

3 PAIRS 25.27% 1967 BP

14 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring

23 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Momo

359 PAIRS 12.13% 3084 BP

27 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A

24 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C

22 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B

1770 PAIRS 9.16% 3512 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, bau

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, jar

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, bil

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, dbm

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, bbu
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, jku
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, mbu
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Jarawan, Nigerian, za0
 28 PAIRS 33.56% 1535 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, nbb,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, nbb,
 1 PAIRS 63.47% 565 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, ken,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, ken,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, ken,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, ken,
 6 PAIRS 45.48% 1072 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, bzv
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, cug
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, dmo
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, ncr
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, nhu
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Eastern, asj
 20 PAIRS 14.56% 2806 BP

6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F
 8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, P
 11 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J
 14 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, M

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, K
 3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, L
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, N
 4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R
 2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, H
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, D
 6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S
 1984 PAIRS 19.19% 2386 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, etu,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, etu,
 1 PAIRS 84.00% 138 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.40), ttf
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.40), lem
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.40), yat
 3 PAIRS 21.16% 2237 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, anv,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, anv,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, anv,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mamfe, anv,
 6 PAIRS 47.56% 1004 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A.60), yav
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A.60), ekm
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A.60), mmu
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A.60), baf
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, Yambasa (A.60), yas
 10 PAIRS 41.64% 1207 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Konja
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Mambila
4 PAIRS 14.28% 2835 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, ndd,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, ndd,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, ndd,
3 PAIRS 89.84% 36 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Suga
3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Vute
3 PAIRS 15.40% 2721 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, isi,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Ekoid, isi,
1 PAIRS 75.93% 292 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tikar, tik,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tikar, tik,
1 PAIRS 20.18% 2309 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid, tiv,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Tivoid, tiv,
1 PAIRS 70.28% 410 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ebughu
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efai
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ekit
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Enwang-Uda
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ibino
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ibuoro

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Iko
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ilue
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, ann
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Okobo
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Oro
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Usaghade
177 PAIRS 49.51% 943 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, Ogoni, East, ogo
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, Ogoni, East, tkq
1 PAIRS 45.42% 1074 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, UpperCross, Central, North-South
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, UpperCross, Central, East-West
1 PAIRS 17.36% 2538 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid, Yoruboid, Edekiri, yor,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Defoid, Yoruboid, Edekiri, yor,
1 PAIRS 60.88% 628 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, ema,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, ema,
1 PAIRS 46.61% 1035 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee, ets,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Ghotuo-Uneme-Yekhee, ets,
1 PAIRS 85.11% 119 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, bin,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, North-Central, Edo-Esan-Ora, bin,
1 PAIRS 54.68% 792 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Southern, opa,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Edoid, Northwestern, Southern, opa,

1 PAIRS 25.57% 1949 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma

8 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Yom-Nawdm

44 PAIRS 13.40% 2932 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Northern

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Eastern

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Western

9 PAIRS 8.57% 3612 BP

1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Ebang-Laru, hbn,

1 Niger-Congo, Kordofanian, Heiban, West-Central, Central, Ebang-Logol, Ebang-Laru, hbn,

1 PAIRS 75.71% 297 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Idomoid, Akweya, Etulo-Idoma, Idoma, idu

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Idomoid, Akweya, Etulo-Idoma, Idoma, ige

1 PAIRS 13.43% 2929 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, cdr,

10 PAIRS 53.50% 825 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Duka, gel,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Duka, gel,

1 PAIRS 39.34% 1293 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, png,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Kainji, Western, Kamuku, png,
1 PAIRS 40.84% 1236 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Bia
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Akan
6 PAIRS 21.61% 2205 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Lelemi-Akpafu, akp
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Lelemi-Akpafu, lef
2 PAIRS 15.77% 2684 BP

8 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang
3 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, SouthGuang
24 PAIRS 19.50% 2361 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Likpe-Santrokofi, lip
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Likpe-Santrokofi, snw
1 PAIRS 22.51% 2143 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fulani-Wolof, Fula, WestCentral, ffm
1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Senegambian, Fulani-Wolof, Fula, WestCentral, fuf
1 PAIRS 47.98% 991 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, B, aik
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, B, ego
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, B, ybj
3 PAIRS 13.29% 2945 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, kni
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, jid
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, ruk
9 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, mda

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, bij

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, nns

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, kdp

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, nbr

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Southwestern, A, nin

100 PAIRS 19.13% 2390 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern, Koro, ldb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern, Koro, ahs

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Plateau, Western, Northwestern, Koro, yes

3 PAIRS 26.76% 1880 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Bullom, Southern, krm

1 Niger-Congo, Atlantic-Congo, Atlantic, Southern, Mel, Bullom-Kissi, Bullom, Southern, bun

1 PAIRS 55.28% 775 BP

8 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Mba

32 PAIRS 10.54% 3297 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Barambo-Pambia, brm

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Barambo-Pambia, pmb

1 PAIRS 75.28% 305 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, SouthCentral, lna

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, SouthCentral, lnl

1 PAIRS 49.71% 937 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, East, mzv

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, East, nga

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Gbaya-Manza-Ngbaka, East, ngg

3 PAIRS 32.30% 1593 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Zande-Nzakara, nzk

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Zande, Zande-Nzakara, zne

1 PAIRS 46.84% 1027 BP

28 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding

2 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Mokole

56 PAIRS 37.21% 1378 BP

1 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Boso, Eastern, bzx

1 Niger-Congo, Mande, Western, Northwestern, Soninke-Bobo, Soninke-Boso, Boso, Eastern, boz

1 PAIRS 34.75% 1482 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Vai-Kono, kno

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Vai-Kono, vai

1 PAIRS 70.40% 407 BP

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, SaraKaba, kwg

1 Nilo-Saharan, CentralSudanic, West, Bongo-Bagirmi, Sara-Bagirmi, Sara, SaraProper, SaraKaba, kwv

1 PAIRS 47.27% 1014 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, jum

4 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, mfz

9 PAIRS 4.44% 4615 BP

2 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-Acholi, Alur-Acholi, Lango-Acholi

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-Acholi, Alur-Acholi, Alur

2 PAIRS 70.12% 413 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-Teso, Lotuxo-Maa, Ongamo-Maa, saq,
 1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-Teso, Lotuxo-Maa, Ongamo-Maa, saq,
 1 PAIRS 91.16% 14 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-Teso, Teso-Turkana, Turkana, nnj,
 1 Nilo-Saharan, EasternSudanic, Nilotic, Eastern, Lotuxo-Teso, Teso-Turkana, Turkana, nnj,
 1 PAIRS 81.53% 184 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Shilluk, shk,
 1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Shilluk, shk,
 1 PAIRS 61.53% 612 BP

1 Nilo-Saharan, EasternSudanic, Eastern, Surmic, South, Southwest, Kacipo-Balesi, koe,
 1 Nilo-Saharan, EasternSudanic, Eastern, Surmic, South, Southwest, Kacipo-Balesi, koe,
 1 PAIRS 36.75% 1397 BP

1 Nilo-Saharan, EasternSudanic, Eastern, Surmic, South, Southeast, Pastoral, Suri, muz
 1 Nilo-Saharan, EasternSudanic, Eastern, Surmic, South, Southeast, Pastoral, Suri, suq
 1 PAIRS 51.61% 880 BP

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Gimira, bcq,
 1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Gimira, bcq,
 1 PAIRS 58.73% 683 BP

2 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, gmo
 1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, doz
 1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, oyd
 2 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, wal
 13 PAIRS 53.01% 839 BP

2 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, kqy

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, kcx
 2 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, zay
 8 PAIRS 45.39% 1075 BP

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal, Amharic-Argobba, amh,
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Transversal, Amharic-Argobba, amh,
 1 PAIRS 79.36% 225 BP

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, sgw,
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, sgw,
 1 PAIRS 64.73% 535 BP

1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, mys,
 1 Afro-Asiatic, Semitic, South, Ethiopian, South, Outer, tt-Group, mys,
 1 PAIRS 62.43% 590 BP

1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, gew,
 1 Afro-Asiatic, Chadic, West, A, A.2, Bole, BoleProper, gew,
 1 PAIRS 67.22% 478 BP

1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, sur,
 1 Afro-Asiatic, Chadic, West, A, A.3, AngasProper, 1, sur,
 1 PAIRS 56.89% 732 BP

1 Indo-European, Germanic, West, HighGerman, German, UpperGerman, Alemannic, gsw,
 1 Indo-European, Germanic, West, HighGerman, German, UpperGerman, Alemannic, gsw,
 1 PAIRS 56.78% 735 BP

2 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Öl
 2 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Rhaetian
 4 PAIRS 21.25% 2231 BP

2 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Portuguese-Galician
 2 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Castilian

4 PAIRS 37.81% 1354 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Western, bft,

36 PAIRS 74.37% 324 BP

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, bod,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, bod,

1 Sino-Tibetan, Tibeto-Burman, Himalayish, Tibeto-Kanauri, Tibetic, Tibetan, Central, bod,

3 PAIRS 47.40% 1009 BP

2 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, blt

5 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, nod

3 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, twh

41 PAIRS 61.99% 601 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Lao-Phutai, lao,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Lao-Phutai, lao,

1 PAIRS 67.38% 474 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, khb,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, khb,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, khb,

3 PAIRS 66.65% 491 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, shn,
1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, Northwest, shn,
1 PAIRS 79.53% 222 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, North Bahnaric, West, Jeh-Halang, jeh,
1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, North Bahnaric, West, Jeh-Halang, jeh,
1 PAIRS 89.46% 43 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Bulang, blr,
1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Bulang, blr,
1 PAIRS 45.37% 1076 BP

1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Wa, wbm,
1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Wa, wbm,
1 Austro-Asiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Waic, Wa, wbm,
3 PAIRS 68.49% 449 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Three Rivers
20 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Piru Bay
1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Kayeli
62 PAIRS 33.33% 1545 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, apx
2 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, ilu
1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, wet
1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, ilw

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, tzn

14 PAIRS 59.68% 659 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Banda-Geser, Geser-Gorom, ges

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Banda-Geser, Geser-Gorom, wah

2 PAIRS 45.13% 1084 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Kisar

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Luang

4 PAIRS 47.70% 1000 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, West, twu,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, West, twu,

1 PAIRS 76.34% 284 BP

3 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, bpq

2 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, abs

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, mkn

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, xmm

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, max

24 PAIRS 74.33% 325 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, Chru-Northern, NorthernCham, rog

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Chamic, Highlands, Chru-Northern, NorthernCham, huq

1 PAIRS 25.83% 1933 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South, Butuan-Tausug, btw

2 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, South, Butuan-Tausug, tsq

2 PAIRS 56.90% 731 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Peripheral, cps

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Peripheral, hil

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Peripheral, msb

3 PAIRS 59.30% 669 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western, kqe,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western, kqe,

1 PAIRS 74.27% 326 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western, klg,

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Western, klg,

1 PAIRS 87.93% 69 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Eastern, Mandayan, myt

3 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Mansakan, Eastern, Mandayan, msk

3 PAIRS 83.77% 143 BP

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Warayan, bks

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Warayan, Gubat

1 Austronesian, Malayo-
Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine,
Bisayan, Central, Warayan, Samar-Waray

3 PAIRS 74.27% 326 BP

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Ibanag, Gaddang, agt

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Ibanag, Gaddang, gad

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Ibanag, Gaddang, gdg

5 PAIRS 53.03% 838 BP

10 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordillera, South-Central Cordillera, Central Cordillera, North Central Cordillera, Nuclear Cordillera

5 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordillera, South-Central Cordillera, Central Cordillera, North Central Cordillera, Kalunga-Itneg

50 PAIRS 49.55% 942 BP

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Ibanag, att,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Ibanag, att,

1 PAIRS 95.19% -51 BP

8 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordillera, South-Central Cordillera, Southern Cordillera, West Southern Cordillera, Nuclear Southern Cordillera

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordillera, South-Central Cordillera, Southern Cordillera, West Southern Cordillera, pag

8 PAIRS 41.95% 1195 BP

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Northeastern Luzon, Northern, dgc,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Northeastern Luzon, Northern, dgc,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Northeastern Luzon, Northern, dgc,

3 PAIRS 76.44% 282 BP

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Isneg, etc.,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Northern Cordillera, Cagayan Valley, Isneg, etc.,

1 PAIRS 92.45% -6 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, Markham

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, South

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, Numbami

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, North

21 PAIRS 8.60% 3607 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, New Caledonian, Southern

4 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, New Caledonian, Northern

12 PAIRS 6.26% 4091 BP

140 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands

15 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Malekula Interior

7 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, East Santo

3185 PAIRS 15.62% 2699 BP

43 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, Meso Melanesian, New Ireland, South New Ireland-Northwest Solomon

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, Meso Melanesian, New Ireland, Madak

7 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, Lavongai-Nalik

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, Tabar
504 PAIRS 11.26% 3198 BP

17 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Ngero-Vitiaz, Vitiaz

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Ngero-Vitiaz, Ngero
34 PAIRS 14.15% 2850 BP

32 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, West Fijian-Rotuman
96 PAIRS 25.82% 1934 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Southeast Solomonian, Malaita-San Cristobal, San Cristobal

20 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Southeast Solomonian, Malaita-San Cristobal, Malaita
180 PAIRS 41.67% 1205 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Temotu, Reefs-Santa Cruz, etc,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Temotu, Reefs-Santa Cruz, etc,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Temotu, Reefs-Santa Cruz, etc,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Temotu, Reefs-Santa Cruz, etc,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Temotu, Reefs-Santa Cruz, etc,

10 PAIRS 47.83% 996 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez, nak

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez, bnp

3 PAIRS 22.53% 2141 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Bughotu

13 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Gela

55 PAIRS 53.97% 812 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, Suauc

11 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa inland-D'Entrecasteaux

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, Maisin

47 PAIRS 15.93% 2669 BP

14 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, Nauruan

14 PAIRS 7.11% 3898 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, LoyaltyIslands, dhv

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, LoyaltyIslands, iai

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, LoyaltyIslands, nen

3 PAIRS 11.54% 3159 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, Western Oceanic, Papuan Tip, Peripheral, Central Papuan

5 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, Papuan Tip, Peripheral, Kilivila-Louisiades

45 PAIRS 5.76% 4216 BP

5 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru-Manam

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Siau

5 PAIRS 16.38% 2627 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Sarmi-Jayapura Bay, Jayapura Bay

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Sarmi-Jayapura Bay, Sarmi

2 PAIRS 8.47% 3630 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, South Vanuatu, Tanna, tnk

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, South Vanuatu, Tanna, tnl

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, South Vanuatu, Tanna, tnn

5 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, South Vanuatu, Tanna, nwi

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, South Vanuatu, Tanna, tnp

63 PAIRS 33.02% 1560 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Admiralty Islands, Eastern, Manus, East

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Admiralty Islands, Eastern, Manus, West

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, Mokoreng-Loni
11 PAIRS 29.83% 1714 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, SoutheastIslands, loj

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, SoutheastIslands, ncn
1 PAIRS 42.00% 1194 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Erromanga, erg

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Erromanga, uur
1 PAIRS 19.10% 2393 BP

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, East
20 PAIRS 22.90% 2117 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, wgo

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, asz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, bhc

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, bu0

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, gei

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, kgb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, lcc

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, xmt

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, slz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, wuy

54 PAIRS 40.09% 1264 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Biakic, bhw

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Biakic, dsn

2 PAIRS 48.91% 962 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, SouthHalmahera, EastMakian-Gane, mky,

36 PAIRS 66.04% 505 BP

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, atd

2 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, mbt

4 PAIRS 69.39% 429 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, East, mbd,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, East, mbd,

1 PAIRS 81.45% 185 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbi,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbi,

1 PAIRS 83.34% 150 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbb,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbb,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, West, mbb,

3 PAIRS 83.83% 142 BP

6 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon

2 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, EastButon

12 PAIRS 66.52% 494 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, bup

9 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic

9 PAIRS 50.36% 917 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Western, WestCoast, vko

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, raz

6 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw

2 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, wru

29 PAIRS 75.56% 300 BP

3 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, Kulisusu

2 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, xmz

2 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, wow

16 PAIRS 65.37% 520 BP

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, Interior, mzq

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, Interior, pdo

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, Interior, tdi

3 PAIRS 82.45% 167 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Carrier-Chilcotin, Babine-Carrier, crx,

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Canadian, Carrier-Chilcotin, Babine-Carrier, crx,

1 PAIRS 36.84% 1393 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, California, Hupa, hup,

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, PacificCoast, California, Hupa, hup,

1 PAIRS 46.55% 1037 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, EasternApache, apj,

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, EasternApache, apj,

1 PAIRS 48.27% 982 BP

1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, WesternApache-Navajo, nav,
1 Na-Dene, NuclearNa-Dene, Athapaskan-
Eyak, Athapaskan, Apachean, Navajo-Apache, WesternApache-Navajo, nav,
1 PAIRS 67.26% 477 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 9
S0 = 92%, R = .72

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Leko-Nimbari, Mumuye-Yandang, Yandang, bcn
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Leko-Nimbari, Mumuye-Yandang, Yandang, pbn
2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Leko-Nimbari, Mumuye-Yandang, Yandang, yen
5 PAIRS 31.25% 1643 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Dama-Galke
2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Tupuri-Mambai
4 PAIRS 23.52% 2076 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Karang
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Koh
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-
Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum,
7 PAIRS 71.55% 383 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, Beboïd, Western, mij,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, Beboïd, Western, mij,
1 PAIRS 41.44% 1214 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Wes
t

6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Cen
ter

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Sou
th

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-
Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Eas
t

67 PAIRS 18.07% 2478 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.60), baz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.60), baz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Mbam, West (A.60), baz,

3 PAIRS 32.81% 1570 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba

8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke

7 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nun

191 PAIRS 17.91% 2491 BP

14 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10)

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Bafia (A.50)

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Duala (A.20)

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Basaa (A.40)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Makaa-Njem (A.80)

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Yaunde-Fang (A.70)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Kako (A.90)

249 PAIRS 11.58% 3155 BP

19 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40)

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Ngombe (C.50)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Mongo (C.70)

99 PAIRS 28.12% 1804 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Njebi (B.50)

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Sira (B.40)

16 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Tsogo (B.30)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Teke (B.70)

109 PAIRS 23.66% 2067 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Tongwe (F.10)

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Sukuma-Nyamwezi (F.20)

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Nyilamba-Langi (F.30)

11 PAIRS 20.39% 2294 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, boe,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboid, Western, boe,

1 PAIRS 33.25% 1549 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, P, Yao (P.20)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, P, Makua (P.30)

2 PAIRS 18.96% 2404 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10)

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Haya-Jita (J.20)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Shi-Havu (J.50)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Rwanda-Rundi (J.60)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Konzo (J.40)

42 PAIRS 26.85% 1874 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Bena-Kinga (G.60)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Gogo (G.10)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Zigula-Zaramo (G.30)

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Shambala (G.20)

10 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40)

46 PAIRS 35.45% 1451 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, M, Bemba (M.40)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, M, Nyakyusa (M.30)
2 PAIRS 30.96% 1658 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, K, Holu (K.10)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, K, Kwangwa (K.40)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, K, Mbala (K.60)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, K, Salampasu-Ndembo (K.30)
6 PAIRS 14.54% 2808 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, L, Luba (L.30)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, L, Nkoya (L.50)
2 PAIRS 23.64% 2068 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, N, Manda (N.10)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, N, Nyanja (N.30)
1 PAIRS 26.98% 1867 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R, Ndonga (R.20)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R, Yeye (R.40)
3 PAIRS 20.29% 2301 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, H, Kongo (H.10)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, H, Yaka (H.30)
1 PAIRS 29.63% 1725 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Sotho-Tswana (S.30)
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Shona (S.10)
3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Nguni (S.40)
11 PAIRS 19.12% 2391 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Mambila, mcu

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Mambila, mzk

1 PAIRS 37.76% 1355 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboïd, Eastern, ncr,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, Beboïd, Eastern, ncr,

1 PAIRS 34.48% 1494 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Vute, vut

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Vute, ww

2 PAIRS 29.90% 1710 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, anw

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, efi

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, ibb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, ukq

9 PAIRS 60.95% 627 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ekit, eke

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ekit, etb

1 PAIRS 71.78% 378 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Enwang-Uda, enw

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Enwang-Uda, uda

1 PAIRS 79.70% 218 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ibuoro, ibr

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Ibuoro, itm

1 PAIRS 83.07% 155 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma, Ntcham

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma, xon

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma, Moba

5 PAIRS 31.31% 1640 BP

4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest
4 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Southeast
16 PAIRS 36.64% 1401 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Western, sig
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Western, sil
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Western, ssl
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Southern, Grusi, Western, vag
6 PAIRS 18.29% 2459 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Bia, Southern
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Bia, Northern
2 PAIRS 22.72% 2129 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Lelemi-Akpafu, akp,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Lelemi, Lelemi-Akpafu, akp,
1 PAIRS 47.58% 1004 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, doy
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, acd
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, ayg
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, gjn
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, kye
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, naw
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, ncu
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, NorthGuang, nko
28 PAIRS 30.12% 1699 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, SouthGuang, afu
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, SouthGuang, gwx
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Guang, SouthGuang, lar

[illegible]

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1  Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Ubangi,Sere-Ngbaka-Mba,Ngbaka-Mba,Mba,doo
1  Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Ubangi,Sere-Ngbaka-Mba,Ngbaka-Mba,Mba,msj
1  Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Ubangi,Sere-Ngbaka-Mba,Ngbaka-Mba,Mba,mfc
1  Niger-Congo,Atlantic-Congo,Volta-Congo,North,Adamawa-
Ubangi,Ubangi,Sere-Ngbaka-Mba,Ngbaka-Mba,Mba,ndt
6  PAIRS    13.90%    2877 BP

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25 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East

3 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-West

75 PAIRS 42.29% 1183 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Mokole, knk

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Mokole, llc

1 PAIRS 67.67% 468 BP

2 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang, Runga-Kibet

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang, Maba

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang, Masalit

5 PAIRS 19.23% 2382 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-Acholi, Alur-Acholi, Lango-Acholi, ach

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Southern, Luo-Acholi, Alur-Acholi, Lango-Acholi, laj

1 PAIRS 62.48% 589 BP

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, gmo,

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, gmo,

1 PAIRS 47.42% 1009 BP

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, kqy,

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, kqy,

1 PAIRS 60.27% 644 BP

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, wal,

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, Central, wal,

1 PAIRS 54.10% 808 BP

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, zay,

1 Afro-Asiatic, Omotic, North, Gonga-Gimojan, Gimojan, Ometo-Gimira, Ometo, East, zay,

1 PAIRS 89.64% 40 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Oil, Southeastern

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Oil, French

1 PAIRS 38.49% 1326 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Rhaetian, fur

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Gallo-Romance, Gallo-Rhaetian, Rhaetian, roh

1 PAIRS 28.12% 1804 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Portuguese-Galician, glg

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Portuguese-Galician, por

1 PAIRS 44.99% 1089 BP

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Castilian, lad

1 Indo-European, Italic, Romance, Italo-Western, Western, Gallo-Iberian, Ibero-Romance, WestIberian, Castilian, spa

1 PAIRS 63.94% 554 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, blt,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, blt,

1 PAIRS 85.27% 116 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, tha,

10 PAIRS 57.77% 708 BP

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, twh,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, twh,

1 Tai-Kadai, Kam-Tai, Be-Tai, Tai-Sek, Tai, Southwestern, EastCentral, ChiangSaeng, twh,

3 PAIRS 76.26% 286 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Southern-Central Mnong, cmo,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Southern-Central Mnong, cmo,

1 PAIRS 89.95% 34 BP

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Eastern Mnong, mng,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Eastern Mnong, mng,

1 Austro-Asiatic, Mon-Khmer, Eastern Mon-Khmer, Bahnaric, South Bahnaric, Sre-Mnong, Mnong, Eastern Mnong, mng,

3 PAIRS 74.87% 314 BP

16 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Piru Bay, East

2 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Piru Bay, West

2 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Nunusaku, Piru Bay, hrk

68 PAIRS 42.65% 1170 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Masiwang, bnf,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Masiwang, bnf,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Seram, Masiwang, bnf,

3 PAIRS 50.09% 926 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, ilu,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Timor, Extra-Ramelaic, North, Wetar, ilu,

1 PAIRS 67.67% 467 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Banda-Geser, Geser-Gorom, ges,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Central Malayo-Polynesian, Central Maluku, East, Banda-Geser, Geser-Gorom, ges,

1 PAIRS 70.95% 395 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Kesar, kje

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Kesar, rmm

1 PAIRS 50.51% 913 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Luang, lti

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Luang-Kisar, Luang, lex

1 PAIRS 57.72% 710 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Teun-Nila-Serua, Nila-Serua, nil

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, Timor, Extra-Ramelaic, East, Teun-Nila-Serua, Nila-Serua, srw

1 PAIRS 63.72% 559 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, bpq,

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, bpq,

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, bpq,

3 PAIRS 74.68% 317 BP

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, abs,

1 Austronesian, Malayo-Polynesian, Malayo-Sumbawan, NorthandEast, Malayic, Malay, Trade, EastIndonesian, abs,

1 PAIRS 83.71% 144 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Buhi-Daraga, bhk,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Buhi-Daraga, bhk,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Buhi-Daraga, bhk,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Inland, Buhi-Daraga, bhk,

6 PAIRS 87.39% 78 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Coastal, Naga, bcl,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Coastal, Naga, bcl,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bikol, Coastal, Naga, bcl,

3 PAIRS 78.55% 241 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan, Eastern, Mandayan, msk,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan, Eastern, Mandayan, msk,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Mansakan, Eastern, Mandayan, msk,

3 PAIRS 86.93% 86 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South, Butuan-Tausug, tsg,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, CentralPhilippine, Bisayan, South, Butuan-Tausug, tsg,

1 PAIRS 75.89% 293 BP

1 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanValley, Ibanagic, Gaddangic, agt,

1 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, NorthernCordilleran, CagayanValley, Ibanagic, Gaddangic, agt,

1 PAIRS 65.94% 507 BP

4 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Ifugaw

2 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Balangaw

4 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Bontok-Kankanay

32 PAIRS 42.93% 1160 BP

6 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Southern Cordilleran, West Southern Cordilleran, Nuclear Southern Cordilleran, Kallahan

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Southern Cordilleran, West Southern Cordilleran, Nuclear Southern Cordilleran, Ibaloy

12 PAIRS 39.36% 1292 BP

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Southern Cordilleran, Ilongot, ilk,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Southern Cordilleran, Ilongot, ilk,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Southern Cordilleran, Ilongot, ilk,

3 PAIRS 87.97% 68 BP

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Kalinga-Itneg, Itneg

3 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Kalinga-Itneg, Kalinga

6 PAIRS 58.90% 679 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, Markham, Upper

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Western Oceanic, North New Guinea, Huon Gulf, Markham, Lower

3 PAIRS 20.99% 2249 BP

34 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo

46 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu

29 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal

15 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi

14 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands,

7531 PAIRS 18.90% 2409 BP

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Mono-Uruava

8 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Choiseul

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Piva-Banoni

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, bxf

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Nehan-NorthBougainville

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Patpatar-Tolai

775 PAIRS 12.79% 3004 BP

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Korap

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Mengen

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Kilenge-Maleu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Roinji-Nenaya

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Mangap-Mbula

110 PAIRS 11.88% 3115 BP

31 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, EastFijian

31 PAIRS 28.19% 1800 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, aia

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, bxa

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, faf

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, agw

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, stn

31 PAIRS 62.33% 592 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Longgu

109 PAIRS 43.79% 1130 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Madak, bjk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Madak, lbv

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Madak, mmx

3 PAIRS 15.23% 2738 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, SmallNambas

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, Labo

62 PAIRS 21.53% 2210 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez, nak,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez, nak,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, Willaumez, nak,

3 PAIRS 73.27% 346 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, Suaucic, bxh

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, Suaucic, sbe

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, Suaucic, swp

3 PAIRS 54.36% 801 BP

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, North

6 PAIRS 20.03% 2321 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Bwaidoga

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Dobu-Duau

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Are-Taupota

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Gumawana

42 PAIRS 19.55% 2358 BP

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponape
ic-Trukic

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Marsha
llese

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ikirib
ati

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Kusaie
an

45 PAIRS 17.01% 2570 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NewCaledonian, Northern, Central

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NewCaledonian, Northern, North

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NewCaledonian, Northern, ExtremeNorthe
rn

5 PAIRS 23.60% 2071 BP

6 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPap
uan, WestCentralPapuan

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPap
uan, Oumic

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPap
uan, Sinagoro-Keapara

20 PAIRS 24.45% 2017 BP

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, WestFijian-
Rotuman, WestFijian

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, WestFijian-
Rotuman, Rotuman

2 PAIRS 21.73% 2196 BP

6 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, tlr

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, mln

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, brr

53 PAIRS 66.22% 501 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Schouten, Kairiru-Manam, Kairiru

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Schouten, Kairiru-Manam, Manam

6 PAIRS 21.43% 2218 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, Kilivila-Louisiades, Kilivila

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, Kilivila-Louisiades, Misima

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, Kilivila-Louisiades, Nimoa-Sudest

8 PAIRS 8.63% 3602 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnk,

3 PAIRS 74.25% 326 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, East, lek

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, East, ttv

1 PAIRS 43.26% 1149 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnl,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnl,

1 PAIRS 79.88% 215 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Gela, lgr

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Gela, nlg

2 PAIRS 73.52% 341 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, West, tlx

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, West, lib

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, AdmiraltyIslands, Eastern, Manus, West, lid

3 PAIRS 42.19% 1187 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, tbf

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, nal

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, tbj

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, tgc

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, lcm

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, leu

20 PAIRS 23.05% 2107 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Sarmi-JayapuraBay, Sarmi, sob

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Sarmi-JayapuraBay, Sarmi, tpf

1 PAIRS 20.13% 2313 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, nwi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, nwi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, nwi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, nwi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, nwi,

10 PAIRS 61.26% 619 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnp,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SouthVanuatu, Tanna, tnp,

1 PAIRS 73.70% 338 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, amk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-

WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, and

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, mth

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, ppm

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, pmo

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, rnn

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, seu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, wad

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, wbw

44 PAIRS 43.07% 1155 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Biakic, bhw,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Biakic, bhw,

1 PAIRS 69.79% 420 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, East, kjr

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, East, wbb

1 PAIRS 52.25% 861 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, slz,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, RajaAmpat, slz,
1 PAIRS 82.15% 172 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, atd,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, atd,

1 PAIRS 96.42% -70 BP

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, mbt,

1 Austronesian, Malayo-Polynesian, Philippine, GreaterCentralPhilippine, Manobo, Central, South, Ata-Tigwa, mbt,

1 PAIRS 82.25% 171 BP

8 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, zka

8 PAIRS 55.16% 779 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Eastern, EastCoast, Kulisusu, xkq

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Eastern, EastCoast, Kulisusu, vkl

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Eastern, EastCoast, Kulisusu, tlk

3 PAIRS 77.53% 260 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, EastButon, xks

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, EastButon, llm

1 PAIRS 57.79% 708 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Bungku-Tolaki, Eastern, EastCoast, xmz,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, xmz,

1 PAIRS 78.64% 239 BP

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, Southwest, mqn,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, Southwest, mqn,

1 PAIRS 86.28% 98 BP

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, lbw,

15 PAIRS 78.17% 248 BP

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, wru,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Western, WestCoast, wru,

1 PAIRS 88.05% 67 BP

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, wow,

1 Austronesian, Malayo-
Polynesian, Celebic, Eastern, Southeastern, Bungku-
Tolaki, Eastern, EastCoast, wow,

1 PAIRS 92.85% -13 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 10
S0 = 92%, R = .72

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Dama-Galke, dmm
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Dama-Galke, gke
1 PAIRS 55.22% 777 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Leko-Nimbari, Duru, Voko-Dowayo, Vere-Dowayo, Dowayo
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Leko-Nimbari, Duru, Voko-Dowayo, Vere-Dowayo, Vere-Gimme
1 PAIRS 26.67% 1885 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Karang, kbn
2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Karang, nzy
2 PAIRS 74.14% 329 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Tupuri-Mambai, mua
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, Northern, Tupuri-Mambai, tui
1 PAIRS 14.34% 2829 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Leko-Nimbari, Mumuye-Yandang, Yandang, yen,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Leko-Nimbari, Mumuye-Yandang, Yandang, yen,
1 PAIRS 17.12% 2560 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, West, agq
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, West, lmx
3 PAIRS 42.68% 1169 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba, azo
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba, bfd
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba, baw
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba, nge

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Ngemba, pny

10 PAIRS 37.11% 1382 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bbk

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bmv

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bkm

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, oku

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bfm

14 PAIRS 24.73% 2000 BP

13 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), nkc

13 PAIRS 29.66% 1723 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, South, bav

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, South, ndb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, South, bse

3 PAIRS 16.22% 2641 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Bafia (A.50), ksf

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Bafia (A.50), lfa

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Bafia (A.50), ngy

3 PAIRS 21.01% 2248 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Duala (A.20), bri

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Duala (A.20), dua
1 PAIRS 24.40% 2020 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, ybb

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, fmp

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, bbj

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, nnz

23 PAIRS 18.35% 2454 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bni

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bws

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri

4 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bmg

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), mmz

146 PAIRS 41.00% 1230 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Basaa (A.40), abb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Basaa (A.40), bas

1 PAIRS 14.39% 2824 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Njebi (B.50), nzb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Njebi (B.50), dma

1 PAIRS 57.64% 712 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Yaunde-Fang (A.70), bum

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Yaunde-Fang (A.70), ewo

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Yaunde-Fang (A.70), fan

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Yaunde-Fang (A.70), mct

6 PAIRS 26.36% 1902 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Pokomo

6 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Malakote

13 PAIRS 37.24% 1377 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, P, Yao (P.20), yao

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, P, Yao (P.20), mwe

1 PAIRS 49.82% 934 BP

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, ncp

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, add

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, lmp

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, nfu

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, yam

18 PAIRS 21.22% 2233 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Sira (B.40), swj

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Sira (B.40), puu

1 PAIRS 57.06% 727 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10), gwr

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10), lug

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10), cgg

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10), nyn

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Nyoro-Ganda (J.10), ttj

10 PAIRS 29.74% 1719 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Haya-Jita (J.20), hay

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Haya-Jita (J.20), jit

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, J, Haya-Jita (J.20), ked

3 PAIRS 36.16% 1421 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, M, Bemba (M.40), bem

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, M, Bemba (M.40), tap

1 PAIRS 35.18% 1463 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Sukuma-Nyamwezi (F.20), suk

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Sukuma-Nyamwezi (F.20), nym

1 PAIRS 32.77% 1571 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, L, Luba (L.30), lub

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, L, Luba (L.30), lua

1 PAIRS 35.46% 1451 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Konja, knp,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Mambila-Konja, Konja, knp,

1 PAIRS 50.43% 915 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R, Ndonga (R.20), kua

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R, Ndonga (R.20), lnb

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, R, Ndonga (R.20), ndo

3 PAIRS 67.56% 470 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Sotho-Tswana (S.30), Sotho

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Sotho-Tswana (S.30), loz

1 PAIRS 36.89% 1391 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mbm

12 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), nmd

52 PAIRS 52.39% 857 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Nyilamba-Langi (F.30), mgz

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Nyilamba-Langi (F.30), nim

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, F, Nyilamba-Langi (F.30), lag

3 PAIRS 27.88% 1817 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nun, byv

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nun, mhk

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nun, bax

3 PAIRS 23.32% 2089 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swb

8 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), wmw

17 PAIRS 50.84% 903 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Nguni (S.40), ssw

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Nguni (S.40), xho

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, S, Nguni (S.40), zul

3 PAIRS 35.67% 1442 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Vute, vut,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Northern, Mambiloid, Suga-Vute, Vute, vut,

1 PAIRS 63.70% 559 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, ibb,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, CrossRiver, DeltaCross, LowerCross, Obolo, Efik, ibb,

1 PAIRS 52.20% 863 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest, Dagaari-Birifor

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest, gur

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest, mos

5 PAIRS 39.40% 1291 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Southeast, dag

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Southeast, hag

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Southeast, Kusaal

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Southeast, maw

6 PAIRS 40.70% 1241 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma, xon,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Gurma, xon,

1 PAIRS 57.88% 705 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Bia, Northern, any

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Bia, Northern, bci

1 PAIRS 44.11% 1119 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Akan, aka,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Kwa, Nyo, Potou-Tano, Tano, Central, Akan, aka,

1 PAIRS 54.39% 800 BP

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Jola, JolaProper, JolaCentral, Jola-Fonyi, dyo,

1 Niger-Congo, Atlantic-Congo, Atlantic, Northern, Bak, Jola, JolaProper, JolaCentral, Jola-Fonyi, dyo,

1 PAIRS 31.77% 1618 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Baka-Gundi

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Gbanzili

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Monzombo

2 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Bwaka

18 PAIRS 49.44% 945 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, Central, CentralCore, Mid-Southern, gox

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Banda, Central, CentralCore, Mid-Southern, mnh

1 PAIRS 16.72% 2596 BP

3 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, NortheasternManding

21 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, Marka-Dafin

87 PAIRS 53.52% 824 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-West, mlq

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-West, mnk

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-West, kao

3 PAIRS 58.50% 689 BP

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang, Runga-Kibet, kie

1 Nilo-Saharan, EasternSudanic, Nilotic, Western, Luo, Northern, Maban-Burun, Maban, Mabang, Runga-Kibet, rou

1 PAIRS 47.57% 1004 BP

12 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, Seram Straits

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, spb

3 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, tlt

51 PAIRS 42.41% 1179 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, hrk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, hrk,

1 PAIRS 57.82% 707 BP

2 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Ifugaw, ifa

2 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Ifugaw, ifb

4 PAIRS 70.82% 398 BP

4 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, SouthernCordilleran, WestSouthernCordilleran, NuclearSouthernCordilleran, Kallahan, ify

2 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, SouthernCordilleran, WestSouthernCordilleran, NuclearSouthernCordilleran, Kallahan, kak

8 PAIRS 50.68% 907 BP

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Nuclear Cordilleran, Bontok-Kankanay, Bontok

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Nuclear Cordilleran, Bontok-Kankanay, Kankanay

4 PAIRS 62.58% 586 BP

2 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Kalinga-Itneg, Kalinga, knb

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Kalinga-Itneg, Kalinga, kmk

2 PAIRS 75.31% 305 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, New Caledonian, Southern, South, Wailic

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, New Caledonian, Southern, South, Zire-Tiri

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, New Caledonian, Southern, South, Xaracuu-Xaragure

3 PAIRS 9.44% 3466 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, tsr

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, alm

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, aor

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, akr

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-

EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tmt

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tlm

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tmi

2 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,vlp

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,vnp

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,wlr

4 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,ws1
547 PAIRS 41.91% 1197 BP

3 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland,South
NewIreland-NorthwestSolomonic,Mono-Uruava,mte

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland,South
NewIreland-NorthwestSolomonic,Mono-Uruava,vmg

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland,South
NewIreland-NorthwestSolomonic,Mono-Uruava,ttu

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland,South
NewIreland-NorthwestSolomonic,Mono-Uruava,urv
12 PAIRS 24.42% 2019 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,NorthNewGuinea,Ngero-
Vitiaz,Vitiaz,SouthwestNewBritain,Amara

2 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Ngero-Vitiaz, Vitiaz, Southwest New Britain, Arawe-Pasismanua

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear

11 PAIRS 9.76% 3415 BP

29 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Tongic

58 PAIRS 54.79% 789 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, app

5 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, btr

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, mwo

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, bpa

3 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, omb

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, hiw

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, krf

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, lkn

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, sax

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, ske

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, tvk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, sww

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, lht

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, vlr

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, nnd

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, wwo

1010 PAIRS 26.79% 1878 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, Markham, Lower, Busu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, Markham, Lower, Wampar

2 PAIRS 23.28% 2091 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, aia,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, aia,

1 PAIRS 94.66% -42 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, onu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, vao

375 PAIRS 28.63% 1777 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, apb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, dor

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, alu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, ora

27 PAIRS 53.65% 821 BP

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Choiseul, baa

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Choiseul, rri

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Choiseul, tva

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Choiseul, vrs

18 PAIRS 31.79% 1617 BP

13 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Bieria-Maii

26 PAIRS 26.81% 1877 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Ngero, Bariai, bch

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Ngero, Bariai, kvc

1 PAIRS 42.24% 1185 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, bxa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, bxa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, SanCristobal, bxa,

3 PAIRS 79.50% 222 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, nmb

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, tmb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, lrv

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, lgk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, lzl

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, mrs

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, vnm

34 PAIRS 28.10% 1805 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel, Central

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel, East

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel, West

9 PAIRS 37.84% 1352 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, bnr

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, lnn

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, plb

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, ssv

13 PAIRS 47.55% 1005 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Bwaidoga, bwd

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Bwaidoga, ddi

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Bwaidoga, yml

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa
inland-D'Entrecasteaux, Bwaidoga, mox

6 PAIRS 28.22% 1799 BP

7 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponape
ic-Trukic, Trukic

3 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponape
ic-Trukic, Ponapeic

21 PAIRS 18.43% 2447 BP

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInter
ior, SmallNambas, dix

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInter
ior, SmallNambas, nms

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInter
ior, SmallNambas, rpn

5 PAIRS 41.39% 1216 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa
inland-D'Entrecasteaux, Dobu-Duau, dob

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa
inland-D'Entrecasteaux, Dobu-Duau, sew

1 PAIRS 29.99% 1706 BP

5 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPap
uan, WestCentralPapuan, Nuclear

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPap
uan, WestCentralPapuan, Gabadi

5 PAIRS 34.92% 1475 BP

8 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-
Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South
NewIreland-NorthwestSolomonic, NewGeorgia, West

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, NewGeorgia, East

16 PAIRS 32.37% 1590 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, etn

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, lpa

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, nmk

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, llp

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, erk

72 PAIRS 39.14% 1301 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, far

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, gmb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, kwd

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, kwf

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, lgl

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, llu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, bvc

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, bvd

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, mlu

44 PAIRS 60.71% 633 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa inland-D'Entrecasteaux, Are-Taupota, Are

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMa inland-D'Entrecasteaux, Are-Taupota, Taupota

4 PAIRS 21.72% 2197 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, gri,

15 PAIRS 90.39% 27 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Nehan-North Bougainville, Buka

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Nehan-North Bougainville, Nehan

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Nehan-North Bougainville, Solos

2 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Nehan-North Bougainville, Saposa-

Tinputz

9 PAIRS 21.52% 2212 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Malaita-

San Cristobal, San Cristobal, agw,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Malaita-

San Cristobal, San Cristobal, agw,

1 PAIRS 82.62% 164 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru
-Manam, Kairiru, kbw

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru
-Manam, Kairiru, kxa

1 PAIRS 25.78% 1937 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, kqw

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, gfk

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, sjr

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, sgz

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, tgg

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, MesoMelanesian, New Ireland, South
New Ireland-Northwest Solomon, Patpatar-Tolai, ksd

15 PAIRS 27.31% 1848 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, Papuan Tip, Peripheral, Kilivila-
Louiades, Kilivila, kij

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, Papuan Tip, Peripheral, Kilivila-
Louiades, Kilivila, myw

1 PAIRS 30.87% 1662 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru
-Manam, Manam, kis

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru
-Manam, Manam, mva

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-

Polynesian, Oceanic, Western Oceanic, North New Guinea, Schouten, Kairiru
-Manam, Manam, woc

3 PAIRS 24.99% 1984 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Gela-
Guadalcanal, Guadalcanal, tlr,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Gela-
Guadalcanal, Guadalcanal, tlr,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Gela-
Guadalcanal, Guadalcanal, tlr,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, Eastern Malayo-Polynesian, Oceanic, Central-
Eastern Oceanic, Southeast Solomon, Gela-
Guadalcanal, Guadalcanal, tlr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Guadalcanal, tlr,

10 PAIRS 71.62% 381 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Gela, lgr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Gela-Guadalcanal, Gela, lgr,

1 PAIRS 81.47% 185 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Mengen, uvl

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Mengen, mee

1 PAIRS 18.62% 2432 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, tbf,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, Lavongai-Nalik, tbf,

1 PAIRS 81.62% 182 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, Sinagoro-Keapara, meu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, Sinagoro-Keapara, snc

1 PAIRS 32.91% 1564 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands,

1 PAIRS 19.63% 2351 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, Kilivila-Louisiades, Nimoa-Sudest, nmw

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, Kilivila-Louisiades, Nimoa-Sudest, tgo

1 PAIRS 9.82% 3406 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, amk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, SouthHalmahera-WestNewGuinea, WestNewGuinea, CenderawasihBay, Yapen, Central-Western, amk,

1 PAIRS 66.49% 494 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Buton, WestButon, cia,

15 PAIRS 78.66% 238 BP

2 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, mnb

5 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, lix

17 PAIRS 56.86% 732 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 11
S0 = 92%, R = .72

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Karang, nzy,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Adamawa, Mbum-Day, Mbum, EasternMbum, Karang, nzy,

1 PAIRS 80.16% 210 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, West, agq,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, West, agq,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, West, agq,

3 PAIRS 48.46% 976 BP

5 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bwt

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bss

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, mbo

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bsi

62 PAIRS 39.84% 1274 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, ybb,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, ybb,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, ybb,

3 PAIRS 25.35% 1962 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo, bxg

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo, bja

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo, lin

9 PAIRS 29.40% 1736 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bni,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bni,

1 PAIRS 78.22% 247 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bws,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bws,

1 PAIRS 78.25% 246 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, coh

3 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, nyf

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, dig

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, dug

12 PAIRS 84.72% 125 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, ncp,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, ncp,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Nkambe, ncp,

3 PAIRS 26.32% 1905 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Ngombe (C.50), ngc,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Ngombe (C.50), ngc,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Ngombe (C.50), ngc,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Ngombe (C.50), ngc,
6 PAIRS 56.41% 744 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, fmp,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, fmp,
1 PAIRS 68.25% 455 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, bbj,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Mbam-Nkam, Bamileke, bbj,
1 PAIRS 74.16% 328 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bkm,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, WideGrassfields, NarrowGrassfields, Ring, Center, bkm,
1 PAIRS 53.46% 826 BP

2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, liz
2 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, biz
4 PAIRS 67.03% 482 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bmg,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bmg,
1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bmg,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), bmg,

6 PAIRS 77.49% 261 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), mmz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), mmz,

1 PAIRS 78.07% 250 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mbm,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mbm,

1 PAIRS 69.04% 437 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), mdt,

66 PAIRS 70.49% 405 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), nmd,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, B, Mbere (B.60), nmd,

1 PAIRS 75.91% 293 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, G, Swahili (G.40), swh,
 28 PAIRS 70.97% 395 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest, gur,
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Gur, Central, Northern, Oti-Volta, Western, Northwest, gur,
 1 PAIRS 49.68% 938 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Baka-Gundi, bkc
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Baka-Gundi, nmj
 1 PAIRS 62.88% 579 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Monzombo, moj
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Monzombo, kpl
 1 PAIRS 50.50% 913 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Bwaka, gix
 1 Niger-Congo, Atlantic-Congo, Volta-Congo, North, Adamawa-Ubangi, Ubangi, Sere-Ngbaka-Mba, Ngbaka-Mba, Ngbaka, Western, Bwaka, pe0
 1 PAIRS 56.31% 747 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramStairsts, Uliase

2 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-

Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Ambon

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Solehua

29 PAIRS 54.16% 807 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, tlt,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, tlt,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, tlt,

3 PAIRS 61.23% 620 BP

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Ifugaw, ifa,

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Ifugaw, ifa,

1 PAIRS 97.16% -82 BP

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Balangaw, blw,

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Balangaw, blw,

1 PAIRS 77.93% 253 BP

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Ifugaw, ifb,

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-
CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, Nuc
learCordilleran, Ifugaw, ifb,

1 PAIRS 92.85% -13 BP

1 Austronesian, Malayo-
Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-

CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,ify,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,ify,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,ify,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,ify,

6 PAIRS 58.25% 696 BP

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Ibaloy,ibl,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Ibaloy,ibl,

1 PAIRS 82.77% 161 BP

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,CentralCordilleran,NorthCentralCordilleran,Kal
inga-Itneg,Itneg,itb,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,CentralCordilleran,NorthCentralCordilleran,Kal
inga-Itneg,Itneg,itb,

1 PAIRS 89.70% 39 BP

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,CentralCordilleran,NorthCentralCordilleran,Kal
inga-Itneg,Kalinga,knb,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,CentralCordilleran,NorthCentralCordilleran,Kal
inga-Itneg,Kalinga,knb,

1 PAIRS 91.07% 15 BP

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-
CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,kak,

1 Austronesian,Malayo-

Polynesian,Philippine,NorthernLuzon,Meso-Cordilleran,South-

CentralCordilleran,SouthernCordilleran,WestSouthernCordilleran,Nu
clearSouthernCordilleran,Kallahan,kak,

1 PAIRS 83.21% 153 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tsr,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tsr,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,WestSanto,tsr,

3 PAIRS 79.03% 231 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland, South
NewIreland-NorthwestSolomonic,Mono-Uruava,mte,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland, South
NewIreland-NorthwestSolomonic,Mono-Uruava,mte,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-
Polynesian,Oceanic,WesternOceanic,MesoMelanesian,NewIreland, South
NewIreland-NorthwestSolomonic,Mono-Uruava,mte,

3 PAIRS 88.50% 59 BP

18 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,Samoic-Outlier

11 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East

198 PAIRS 50.97% 899 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,EastVanuatu,app,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,NorthandCentralVanuatu,NortheastVanu
atu-BanksIslands,EastVanuatu,app,

1 PAIRS 53.54% 824 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, Markham, Lower, Busu, laz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, Markham, Lower, Busu, msu

1 PAIRS 41.53% 1210 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, upv,

21 PAIRS 64.40% 543 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, apb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, apb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, apb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, apb,

6 PAIRS 70.05% 415 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, Choiseul, baa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, Choiseul, baa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, Choiseul, baa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, Choiseul, baa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, Choiseul, baa,

10 PAIRS 62.22% 595 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, ahb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, ahb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, ahb,

3 PAIRS 62.40% 591 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, btr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, btr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, btr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, btr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, btr,

10 PAIRS 75.27% 305 BP

5 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Baki-Bierebo

8 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo

40 PAIRS 45.35% 1077 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Bieria-Maii, brj

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Bieria-Maii, mmm

1 PAIRS 45.98% 1056 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, nmb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, nmb,

1 PAIRS 79.74% 218 BP

4 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Northern

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Southern

4 PAIRS 19.71% 2345 BP

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, SantaIsabel, Central, blp

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, SantaIsabel, Central, kkk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, South NewIreland-NorthwestSolomonic, SantaIsabel, Central, jaj

5 PAIRS 48.86% 963 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, South, Hote-Buang, Buang, Mumeng

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, HuonGulf, South, Hote-Buang, Buang, bzh

1 PAIRS 54.31% 802 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, vrt,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, vrt,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, vrt,

3 PAIRS 75.47% 301 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, bnr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, bnr,

1 PAIRS 73.88% 334 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, cal

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, sov

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, puw

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, chk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, uli

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, woe

20 PAIRS 33.32% 1546 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, bpa,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, bpa,

1 PAIRS 74.85% 314 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, SmallNambas, dix,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, SmallNambas, dix,

1 PAIRS 42.05% 1192 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, WestCentralPapuan, Nuclear, don

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, WestCentralPapuan, Nuclear, kse

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, WestCentralPapuan, Nuclear, nrz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, WestCentralPapuan, Nuclear, mek

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, PapuanTip, Peripheral, CentralPapuan, WestCentralPapuan, Nuclear, rro

10 PAIRS 35.20% 1462 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, nke

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, hoa

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, kzk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, ksg

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, lga

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, rug

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, sbb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-

Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, West, uge

28 PAIRS 33.32% 1546 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, omb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, omb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, omb,

3 PAIRS 71.18% 391 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Marshallese, mah,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Marshallese, mah,

1 PAIRS 39.01% 1306 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, WestFijian-Rotuman, Wyy,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, WestFijian-Rotuman, Wyy,

1 PAIRS 67.80% 465 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Are-Taupota, Are, pwg

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Are-Taupota, Are, ubr

1 PAIRS 23.55% 2074 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NewCaledonian, Northern, North, Nemi, jaz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NewCaledonian, Northern, North, Nemi, nem

1 PAIRS 62.36% 592 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, tmb,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, MalekulaCentral, tmb,

1 PAIRS 61.70% 608 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, Labo, mwi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, MalekulaInterior, Labo, mwi,

1 PAIRS 68.44% 450 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Bibling, lmg

2 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Bibling, mwh

2 PAIRS 14.14% 2851 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, llu,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Northern, llu,

1 PAIRS 72.10% 371 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, alu,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, alu,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, SoutheastSolomonic, Malaita-SanCristobal, Malaita, Southern, alu,

3 PAIRS 66.78% 488 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, mme,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, mme,

1 PAIRS 87.92% 69 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, mll,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, mll,

1 PAIRS 72.12% 371 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, East, mvo

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, NewGeorgia, East, mpr

1 PAIRS 59.21% 671 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, mrm,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, mrm,

1 PAIRS 86.10% 101 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Are-Taupota, Taupota, mvn

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, PapuanTip, Nuclear, NorthPapuanMainland-D'Entrecasteaux, Are-Taupota, Taupota, wed

1 PAIRS 25.00% 1983 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Ponapeic, mkj

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Ponapeic, pif

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Ponapeic, pon

3 PAIRS 42.57% 1173 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, mrp,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, mrp,

1 PAIRS 74.76% 316 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, msn,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, msn,

1 PAIRS 55.06% 781 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, nmk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, nmk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, nmk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, nmk,

6 PAIRS 90.35% 28 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, nrg,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, nrg,

1 PAIRS 63.67% 560 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, nsw,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, WestSanto, nsw,

1 PAIRS 77.33% 264 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal,

1 PAIRS 25.82% 1934 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Tongic, niu

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Tongic, ton

1 PAIRS 72.07% 372 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, mmg,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, mmg,

1 PAIRS 80.48% 204 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, llp,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, CentralVanuatu, llp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, CentralVanuatu, llp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, CentralVanuatu, llp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, CentralVanuatu, llp,

10 PAIRS 84.50% 129 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, WestSanto, mla,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, WestSanto, mla,

1 PAIRS 76.85% 274 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, EastVanuatu, pma,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, EastVanuatu, pma,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, EastVanuatu, pma,

3 PAIRS 79.69% 219 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, EastVanuatu, ske,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, EastVanuatu, ske,

1 PAIRS 46.35% 1043 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, ssv,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, EastSanto, South, ssv,

1 PAIRS 72.21% 369 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, erk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, erk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, CentralVanuatu, erk,

3 PAIRS 58.55% 688 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, sns,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, MalekulaCoastal, sns,

1 PAIRS 89.04% 50 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, tvk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, EastVanuatu, tvk,

1 PAIRS 82.43% 167 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Nehan-NorthBougainville, Saposa-Tinputz, sps

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, Nehan-NorthBougainville, Saposa-Tinputz, tio

1 PAIRS 23.36% 2086 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, vlp,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, vlp,

1 PAIRS 85.78% 106 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, vlr,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, vlr,

1 PAIRS 55.95% 757 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, wwo,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, East Vanuatu, wwo,

1 PAIRS 73.40% 344 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, wsi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, wsi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, wsi,

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, West Santo, wsi,

6 PAIRS 71.03% 394 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, mnb,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, mnb,

1 PAIRS 64.65% 537 BP

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp,

1 Austronesian, Malayo-Polynesian, Celebic, Eastern, Southeastern, Muna-Buton, NuclearMuna-Buton, Munan, Munic, Western, pnp,

10 PAIRS 76.28% 285 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 12
S0 = 92%, R = .72

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bqz,

10 PAIRS 67.45% 473 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bss,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bss,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, bss,

3 PAIRS 58.92% 678 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo, bja,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Lusengo, bja,

1 PAIRS 82.60% 164 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, nyf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, nyf,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Central, E, Nyika (E.40), Mijikenda, nyf,

3 PAIRS 75.60% 299 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, mbo,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, mbo,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, A, Lundu-Balong (A.10), Ngoe, mbo,

3 PAIRS 39.74% 1278 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, liz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, liz,

1 PAIRS 76.37% 283 BP

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, biz,

1 Niger-Congo, Atlantic-Congo, Volta-Congo, Benue-Congo, Bantoid, Southern, NarrowBantu, Northwest, C, Bangi-Ntomba (C.40), Ngiri, biz,

1 PAIRS 81.13% 191 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, NortheasternManding, Bamana, bam

2 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, NortheasternManding, Bamana, dyu

2 PAIRS 50.62% 909 BP

6 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx

3 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, myq

5 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jud

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kfo

5 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod

172 PAIRS 64.04% 551 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, West, Asilulu, asl,

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, West, Asilulu, asl,

1 PAIRS 70.21% 411 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramStraits, Ambon, htu

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramStraits, Ambon, tlu

1 PAIRS 68.28% 454 BP

1 Austronesian, Malayo-Polynesian, Philippine, NorthernLuzon, Meso-Cordilleran, South-CentralCordilleran, CentralCordilleran, NorthCentralCordilleran, NuclearCordilleran, Bontok-Kankanay, Bontok, bnc,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Nuclear Cordilleran, Bontok-Kankanay, Bontok, bnc,

1 PAIRS 69.28% 432 BP

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Nuclear Cordilleran, Bontok-Kankanay, Kankanay, xnn,

1 Austronesian, Malayo-Polynesian, Philippine, Northern Luzon, Meso-Cordilleran, South-Central Cordilleran, Central Cordilleran, North Central Cordilleran, Nuclear Cordilleran, Bontok-Kankanay, Kankanay, xnn,

1 PAIRS 87.56% 75 BP

9 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic

4 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Ellicean

2 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, East Uvean-Niuafu'ou

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Pukapuka

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Samoan

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, Central Pacific, East Fijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Tokelauan

110 PAIRS 55.42% 771 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, Epi, Lamenu-Baki, Baki-Bierebo, bki

4 Austronesian, Malayo-Polynesian, Central-Eastern, Eastern Malayo-Polynesian, Oceanic, Central-Eastern Oceanic, Remote Oceanic, North and Central Vanuatu, Northeast Vanuatu-Banks Islands, Epi, Lamenu-Baki, Baki-Bierebo, bnk

4 PAIRS 43.47% 1141 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Northern, brz

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Northern, gdd

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Northern, mjk

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, Bel, NuclearBel, Northern, tbc

6 PAIRS 42.58% 1172 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel, Central, blp,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, MesoMelanesian, NewIreland, SouthNewIreland-NorthwestSolomonic, SantaIsabel, Central, blp,

1 PAIRS 45.07% 1086 BP

10 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, East, Central

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, East, Rapanui

10 PAIRS 48.34% 979 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Arawe-Pasismanua, Pasismanua, pss

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Arawe-Pasismanua, Pasismanua, ssz

1 PAIRS 42.80% 1165 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lmu

7 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww

7 PAIRS 58.10% 700 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Bibling, mwh,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, WesternOceanic, NorthNewGuinea, Ngero-Vitiaz, Vitiaz, SouthwestNewBritain, Bibling, mwh,

1 PAIRS 52.44% 856 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, sov,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, Micronesian, MicronesianProper, Ponapeic-Trukic, Trukic, sov,

1 PAIRS 91.14% 14 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 13

S0 = 92%, R = .72

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, mxx,

15 PAIRS 64.59% 538 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, myq,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, myq,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, myq,

3 PAIRS 87.28% 80 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, NortheasternManding, Bamana, dyu,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, NortheasternManding, Bamana, dyu,

1 PAIRS 72.08% 371 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, kga,

10 PAIRS 79.70% 218 BP

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod,

1 Niger-Congo, Mande, Western, Central-Southwestern, Central, Manding-Jogo, Manding-Vai, Manding-Mokole, Manding, Manding-East, SoutheasternManding, Maninka-Mori, jod,

10 PAIRS 81.54% 184 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, CentralMalayo-

Polynesian, CentralMaluku, East, Seram, Nunusaku, ThreeRivers, Amalumut
e, NorthwestSeram, UlatInai, alp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-

Polynesian, CentralMaluku, East, Seram, Nunusaku, ThreeRivers, Amalumut
e, NorthwestSeram, UlatInai, alp,

1 PAIRS 66.23% 500 BP

6 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-

Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi

3 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-

Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Saparua

18 PAIRS 43.04% 1156 BP

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, fut

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, fud

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, mmw

2 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, mxe

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, mnv

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, tkp

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, Futunic, piv

34 PAIRS 63.54% 563 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Baki-Bierebo, bnk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Baki-Bierebo, bnk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Baki-Bierebo, bnk,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Baki-Bierebo, bnk,

6 PAIRS 58.82% 681 BP

3 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, East, Central, Marquesic

7 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, East, Central, Tahitic

21 PAIRS 46.48% 1039 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Ellicean, kpg

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Ellicean, ojb

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Ellicean, tvl

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-Polynesian, Polynesian, Nuclear, Samoic-Outlier, Ellicean, nkr

6 PAIRS 58.51% 689 BP

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanuatu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, NorthandCentralVanuatu, NortheastVanu
atu-BanksIslands, Epi, Lamenu-Baki, Lamenu-Lewo, lww,

21 PAIRS 70.15% 413 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, EastUvean-
Niuafo'ou, num

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, Samoic-Outlier, EastUvean-
Niuafo'ou, wls

1 PAIRS 89.23% 46 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 14
S0 = 92%, R = .72

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, amq

4 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, elp

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, nul

9 PAIRS 50.55% 911 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-

EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,Samoic-Outlier,Futunic,fut,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,Samoic-Outlier,Futunic,fut,

1 PAIRS 83.51% 147 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,Samoic-Outlier,Futunic,mxe,

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,Samoic-Outlier,Futunic,mxe,

1 PAIRS 93.29% -20 BP

2 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Marquesic,haw

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Marquesic,mrq

2 PAIRS 45.21% 1081 BP

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,rkh

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,mri

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,pnh

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,rar

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,aut

1 Austronesian,Malayo-Polynesian,Central-
Eastern,EasternMalayo-Polynesian,Oceanic,Central-
EasternOceanic,RemoteOceanic,CentralPacific,EastFijian-
Polynesian,Polynesian,Nuclear,East,Central,Tahitic,tah

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, East, Central, Tahitic, pmt
21 PAIRS 55.55% 768 BP

2 SYNONYMS, 40 WORDS, DATE > 1700, LEVEL 15
S0 = 92%, R = .72

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, elp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, elp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, elp,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Elpaputi, elp,

6 PAIRS 79.22% 228 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Saparua, spr,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Saparua, spr,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, CentralMalayo-
Polynesian, CentralMaluku, East, Seram, Nunusaku, PiruBay, East, SeramSt
raits, Uliase, Hatuhaha, Saparua, spr,

3 PAIRS 59.98% 651 BP

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, East, Central, Marquesic, haw,

1 Austronesian, Malayo-Polynesian, Central-
Eastern, EasternMalayo-Polynesian, Oceanic, Central-
EasternOceanic, RemoteOceanic, CentralPacific, EastFijian-
Polynesian, Polynesian, Nuclear, East, Central, Marquesic, haw,

1 PAIRS 90.21% 30 BP